SHARP SERVICE MANUAL

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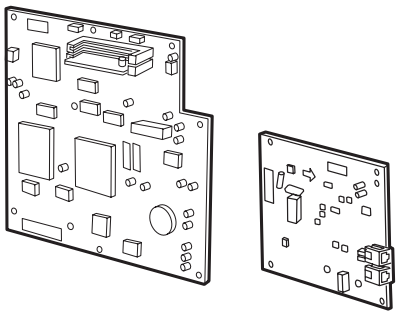

DIGITAL MULTIFUNCTIONAL SYSTEM OPTION
FACSIMILE EXPANSION KIT
(For U.K. / Germany / France)

MODEL AR-FX7

EXPANSION MEMORY 8MB: AR-MM9

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

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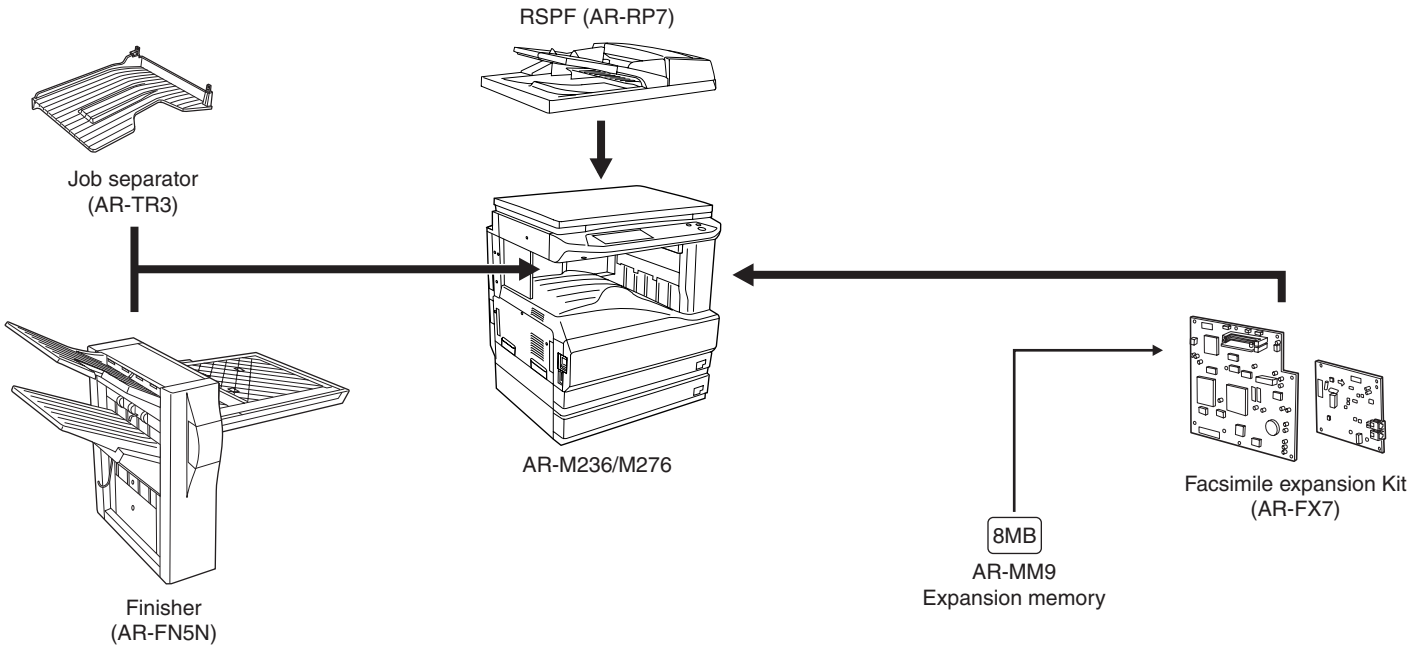
[1] OUTLINE

This unit is a fax expansion kit which provides facsimile functions by attaching to the digital machine AR-M236/M276 series.

To expand facsimile functions, use of RSPF is recommendable. By attaching a job separator/finisher, copy output and fax output can be separately discharged to different trays.

The fax board of the fax expansion kit is provided with 2MB flash memory (standard). An expansion memory of one of 8MB can be added. (8MB expansion memory for fax, AR-MM9)



[2] SPECIFICATIONS

1. Communication system

(1) Electronic transmission system

Transmission time	Less than 3 sec (Super G3/33600bps) Approx. 6 sec (G3 ECM/14400bps)
Compression system	MH, MR, MMR, JBIG
Modem speed	33600bps → 2400bps auto fall back
Mutual communication	Super G3/G3
Employed line	Public Switched Telephone Network (PSTN), Private Branch Exchange (PBX)
R-key operation when setting PBX	YES (Germany only)
Number of employed lines	One line
ECM	YES

2. Scanning system

(1) Document size

Max. document width		297mm (11.7")	
Unscanable area		Lead edge 5mm or less, rear edge 5mm or less left & right edges 6mm or less	
Auto detection size	OC	AB series	A3/B4/A4/A4R/A5
		Inch series	11 x 17/8.5 x 14/8.5 x 11/8.5 x 11R/5.5 x 8.5
	RSPF	AB series	A3/B4/A4/A4R/A5/A5R
		Inch series	11 x 17/8.5 x 14/8.5 x 11/ 8.5 x 11R/5.5 x 8.5/5.5 x 8.5R
Document size specified		AB series	A3/B4/A4/A4R/B5/B5R/A5/A5R
		Inch series	8.5 x 11/8.5 x 11R
Duplex document specified		YES	
Long document		Max. 1000mm (A3 width 297mm/except when ultra fine)	

(2) Transmission mode document load quantity scan cycle (RSPF capacity)

RSPF/OC transmission select	NO (Selection inhibited during scanning of a document)
Continuous auto paper feed	YES
Document load capacity	RSPF: 100 sheets
Document scan cycle	40 pages/min (Normal, A4R memory transmission)
Document scan speed	About 1.5sec/page (Normal, A4R memory transmission)
Job build (Large document mode)	YES
Slow scan mode	YES

3. Image process system

(1) Half-tone reproduction density adjustment

Half-tone	Equivalent to 256 gradations (Combination of fine/super fine/ultra fine is possible.)
Exposure selection	Auto/manual in 5 steps

(2) Image selection

Standard	8dot/mm x 3.85line/mm
Fine	8dot/mm x 7.7line/mm
Super fine	8dot/mm x 15.4line/mm
Ultra fine	16dot/mm x 15.4line/mm: ITU-T conforming

(3) Print resolution

600dpi (with resolution correction)

4. Print system

(1) Recording size

Max. record width	293mm (11.5")	
Recording paper size detection	YES (All sizes except paper from multi bypass tray. → Recognition of the set size. The tray has no function to detect the actual paper size.)	
Recording paper size	AB series	A3/B4/A4/A4R/B5/B5R/A5/ 8.5 x 11/8.5 x 11R
	Inch series	11 x 17/8.5 x 14/8.5 x 11/ 8.5 x 11R/5.5 x 8.5/A4/A4R

(2) Recording paper

Recording paper empty detection	YES
Paper feed	All installed trays except for multi-bypass tray.
Reception paper full detection	YES

5. Transmission function system

(1) Simplified dialing function

Rapid key dialing/ Group dialing registration per	500 numbers (Total volume of rapid key and group dialing)
Chain dialing	YES
Redialing	The preceding number in single address transmission is registered. (except time specification) Not cleared even by clear all key
Mode recall	NO

(2) F-code communication

Sub address	YES (Max. 20 digits)
Password	YES (Max. 20 digits)

(3) Time specification

Time specification: Transmission/polling	Time is specified in transmission/polling.
Call time in memory send	30sec / 45sec / 60 sec Default: 45 sec

(4) Recall mode

Auto recall mode when other party is busy.	Interval	1min to 15min, default 3min
	Number of times	1 to 10 times / No resend Default 2 times
Recall mode when in a communication error	Interval	1min to 15min / 0: Resend immediately after disconnection of the line Default: 1 min
	Number of times	1 to 5 times / No resend Default: Once
	Send page	Page with which the error occurred
Number of transmissions counted in recall mode simultaneously.		Max. 50 items
Subsequent transmission reservation override in recall mode		NO

(5) Automatic reduction transmission

YES (ON/OFF by key operator program)

(6) Memory transmission/direct transmission

Memory transmission		YES
	Number of reservation to be set	Max. 50 items
	Process in memory full	Transmission cancel or only scanned data transmission
Quick online transmission		YES (Enable/Disable setup by key operator program)
Direct transmission		YES (100 pages from RSPF, only 1 page from OC)
Default setup		Set by key operator program

(7) Broadcast function

Broadcast transmission	Number of destinations	200 destinations (When group dialing is used, the number of other parties registered to group dialing is added.)
	Transmission method	10-key, rapid key dialing, group key, next address key
	Usable dial	10-key entry, rapid key dialing, group key dialing. However, an address including sub address of 10-key entry registered cannot be used.
Group dialing		Transmitted by group dialing registered to rapid key dialing
Relay broadcast transmission	Instructing station	Only from the machine having Sharp relay broadcast instructing transmission function
	Relay station	Only from the machine having Sharp relay broadcast transmission function
	Multi-stage relay	NO
	Number of relay groups	10 groups
F code relay broadcast instruction (relay broadcast instruction function)		YES
F code relay broadcast (relay function)		YES
Confidential transmission (Sharp machine mode) (Other party)		Only Sharp machine having confidential function
Confidential transmission (F code communication) (Other party)		F code support machine

(8) Scan specification

Page division	YES (Allowed only from OC) Applicable size: A3/B4/A4R
Page linkage	NO

(9) Priority function

Transmission reservation interrupt	YES (check by job status key)
Broadcast interrupt	YES (by direct transmission)

(10) Multiple message transmission

Multiple message transmission	NO

(11) Rotation transmission

Paper size	A4 → A4R, A5R → A5, 8.5 x 11 → 8.5 x 11R

(12) Book document transmission

Transmission method	By OC mode

(13) Finish stamp

NO

(14) Bulletin board (remote transmission, polling transmission functions)

Bulletin board (remote transmission)	YES	
Polling protection function	Check by other party's number	YES
	Check by matching of system number (user's own machine), ID number (other party's machine) (between Sharp machines only)	YES
F code bulletin board	YES	
F code bulletin board box	Registered up to 10 boxes	
F code bulletin board box name	Registered up to 36 letters (18 letters are displayed)	

6. Reception function system

(1) Reception mode

Default setup		Automatic reception (Reception state switchable)
Automatic reception	Automatic reception setup	YES
	Number of calls	0 to 9 times (Factory default 2 times)
	Non-call reception	Allowed by setting the number of calls to 0.
Manual reception setup		YES
Setup for switching to automatic reception		0 to 9 times (Factory setup 0 time) (France only)
Auto reduction setup in letter reception		NO
Auto reduction setup in A3 reception (A3 RX REDUCE)		NO
Answering machine connection		NO
Reception mode time switch		NO
Reception data print condition setup		Set whether the received data are reduced or divided to print, by the key operator program.

(2) Zoom reception

Auto reduction print on the paper size	YES (ON/OFF by key operator program)

(3) Memory reception function

Memory delayed receiving	Only when output is disabled.
Forced memory receiving	NO

(4) Received data skip output

YES

(5) Transfer

Transfer destination registration	YES (Registered by key operator program)
Transfer procedure	YES (Operated by function menu)

(6) Specified number reception

Only designated number receiving enabled.	NO
Reception reject setup (ANTI JUNK FAX)	YES (ON/OFF by key operator program)
Registration of the numbers to be rejected	50 items (up to 20 digits each) Registered by key operation program.

(7) Confidential function

Confidential reception (Sharp machine mode) (Sender)	Sharp machine having confidential function only
Confidential box	Registered up to 10 boxes
Confidential box name	Registered up to 36 letters (18 letters displayed)
Confidential ID code	Set per confidential box
Confidential (F code communication) (Sender)	F code support machine
F code confidential box	Registered up to 10 boxes
F code confidential box name	Registered up to 36 letters (18 letters displayed)
F code confidential box print pass code	YES (4 digits)

(8) Rotation reception

Paper is outputted by rotating 90 degrees to the set direction of paper in cassette

(9) Division reception

Division size	When a long original is received, machine outputs the data according to the condition set through key operator program.

(10) Duplex reception

YES

(11) 2 in 1 reception

NO

(12) Polling

Send request	YES
Resolution	Ultra Fine (Change by the soft SW)

(13) Turn around transmission

NO

7. Registration system

(1) Number registration

Rapid dialing	Number of items (Include group)	500 items
	Number of digits of other party's number	50 digits (+ Sub address 20 digits, pass code 20 digits)
	User tag classification	YES
	International communication mode setup	YES
	Transmission method	Rapid dialing key + Start key
Group dialing	Registered key	Rapid dialing key 10-key (Sub address not available)
	Max. number of registration per group dialing	200 items (The total number of registration is 200 items.)
	Registerable number	Numbers registered to rapid dialing, and numbers entered with 10-key
	Registered name	36 letters
	User tag classification	YES
	Transmission method	Rapid dialing key + Start key
Program	Number of items	8 items
	Registerable items	All items during transmission except time specification/original/document size/duplex/job build.
	Registered name	36 letters
	Call method	By pressing program key
	Change in setup after calling	NO (Change in setup is available for time specification/document size/ original/duplex/job build. (Cannot set duplex/job build if select dual page scan when setting.))
Relay group	Number of items	10 groups
	Registered name	36 letters
	Relay station number registration	10-key only
	Reception station number registration	10-key dialing (Input the number that registered in relay station for rapid/group/speed dial)

(2) Sender registration

Sender's name	20 items (registration/display: 22 letters) Registered by key operator program.
Sender's number	20 digits, registered with key operator program

(3) Polling (Registration of allow number)

Registration of polling allow number	10 items, 20 digits, registered by key operator program
System number registration	1 items, 4 digits, registered by key operator program
Registration of polling allow ID number	Up to 10 items in 4 digits. Registered by key operator program.
Relay ID code registration	10 items, 20 digits, registered by key operator program

(4) Letter input

Key entry	YES
Letters allowed for input	3 types of keyboard available

(5) Registered data read/write

YES (Service tool. Dial registration can be made with PC.)

(6) Date/time adjustment

Registered by key operator program.

(7) Backup

Backup of registration in power failure	SRAM used, by built-in battery

8. Telephone function system

Handset		NO
On-hook function		YES
Reserve		NO
Pause		YES (1 to 15sec: Default 2sec, set by key operator program)
Telephone transmission in power failure		NO (However, external telephone transmission is allowed.)
Sound volume adjustment	Ringer volume	YES (Set by key operator program to High/Medium/Low/Silent.)
	Line monitor sound	YES (Set by key operator program to High/Medium/Low/Silent.)
	Speaker sound	YES (Set by key operator program to High/Medium/Low.)
	Transmission complete sound	YES (Set by key operator program to High/Medium/Low/Silent.)

Transmission complete sound tone setup (transmission end)		YES (Set by key operator program to PATTERN 1/2/3.)
Transmission complete sound tone setup (reception end)		YES (Set by key operator program to PATTERN 1/2/3.)
Transmission complete sound time setup		YES (Set by key operator program. 2.0/2.5/3.0/3.5/4.0 sec.)
Scan end sound		YES (Set by soft switch.)
Tone pulse switch		Cancel tone/pulse switch set by the key operator program. Set with the service switch.
External telephone connection		YES
	Remote reception switch	YES (Switch number is in 1 digit + **) 5**
Telephone/ Fax	Sound response	NO
	Answering voice recording	NO

9. Memory system

Memory capacity	Standard	2MB
	Option	8MB
Memory content (transmission reservation) confirmation	LCD display	YES
	Printout	YES
Memory use status		YES (% display)
Document data memory backup in power failure		YES (Flash memory)

10. Additional information function for transmission

Page counter		YES
Date printing		YES (day/month/year/the day of week, year is in 4 digits)
Date/ display sequential switch		NO
Cover paper item	Date	YES
	Receiver's name	YES
	Receiver's number	YES
	Sender's name	YES
	Sender's number	YES
	Display of number of documents transmitted	YES
	Transmission message	YES
	Print paper size	A4
Transmission message (Regular message)		(U.K.) CONFIDENTIAL/PLEASE. DISTRIBUTE/URGENT/PLEASE CALL BACK/IMPORTANT (France) COFIDENTIEL/ VEUILLEZ DISTRIBUER URGENT VEUILLEZ RAPPELER IMPORTANT (Germany) VERTRAULICH BITTE VERTEILEN EILIG BITTE RÜCKRUF WICHTIG
Sender print		NO
User message		NO

11. Additional print function when receiving

Index print	YES (Set by key operator program)

12. Recording table system

(1) Communication record function

Communication record table size		A4 (Not output when paper larger than A5 is not set.)
Communication record memory capacity		50 items in total of transmission and reception
Communication record table		Max. 50 items for each of transmission and reception (Total of transmission and reception is up to 50 items.) Record table is outputted separately. If registration exceeds 50, the oldest one is deleted.
	Time-specified output	YES (1 time per day)
	Output when recording memory full	YES (Print/not print is set by key operator)
	Output of individual department	YES (Communication time of each department is outputted as department management record table.)
Time-specified communication table		Common with transmission record table
Confidential reception check table		YES

(2) Communication result report function

Communication result table	Single sending	YES (Print out all report/Print out error report only/No printed report. With key operator program)
	Broadcast communication report	YES (Print out all report/Print out error report only/No printed report. With key operator program)
	Reception	YES (Print out all report/When error occurs/No printed report. With key operator program)
	Confidential reception	YES (Print out notice page/Not print out notice page. With key operator program)
Image memory print		YES (Print out all report/When error occurs/No printed report. With key operator program)

(3) Other report list

Rapid # list	YES (Rapid key table)
Group list	YES (Group number table)
Telephone number list	YES (Table of searched letters in rapid key dialing, and group dialing in alphabetical order)
Program list	YES
Relay group list	YES
Transmission message list	NO
Pass code list	YES
Mem. polling list	YES
Confidential reception list	YES
Activity report	YES
Timer list	YES
Confidential code list	YES
FAX key operator program list	YES
FAX account usage list	YES
F code memory box list	YES
Junk FAX number list	YES
Soft switch list (Output by SIM)	YES
Memory image deletion table	NO
Department code table	NO

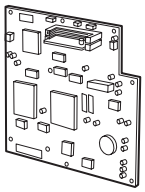
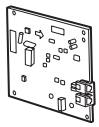
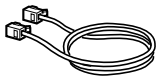
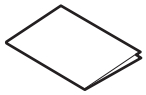
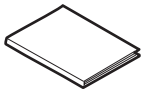
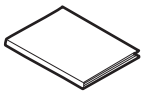
13. Others

CSI transmission		YES
Department management	Limitation on users in each department	YES
	Number of departments registered	100 items
	Charge management function for each department	NO
Automatic booting mode		NO
WIN FAST		YES
Distinctive ring		NO
Summer time setting		YES (Start: the last Sunday in March 1:00 → 2:00 End: the last Sunday in October 1:00 → 0:00) (Default: ON)
Address book import/export		In Japanese and English
PC-FAX		Supplied languages: English, French, Swedish, Italian, Spanish, German, Dutch, Danish, Finish/Norwegian (TX only to RX. not available)

[3] INSTALLATION PROCEDURE

1. Install of expansion kit

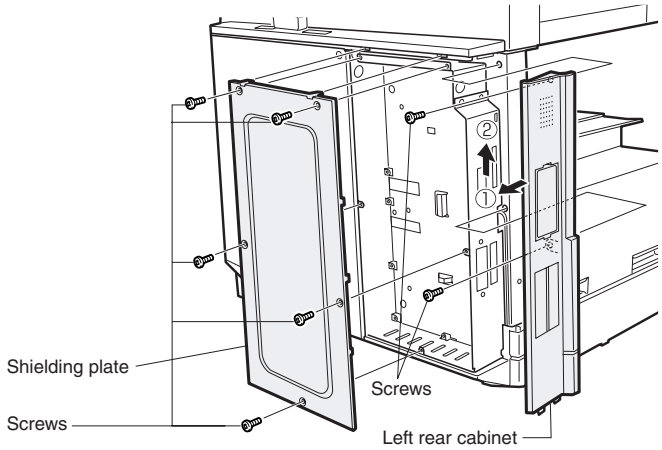
A. Parts included

		
PWB spacers: 2 pcs.	Fax PWB: 1 pc.	TEL/LIU PWB: 1 pc.
		
Speaker unit: 1pc.	Fax connector cover: 1 pc.	Line cable: 1 pc.
M3 golden screws: 2 pcs.	M3 screws with washer: 8 pcs.	Supplied label: 1 sheet (For SUK)
		
Installation manual: 1 sheet	Operation manuals: 1 pc.	Quick reference booklet: 1pc. (For SEN, SEB)
Line adapter: 1 pc. (For SUK, SEB, SEES, SEZ)		

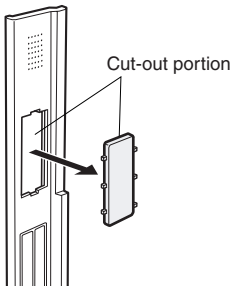
B. Installation procedure

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

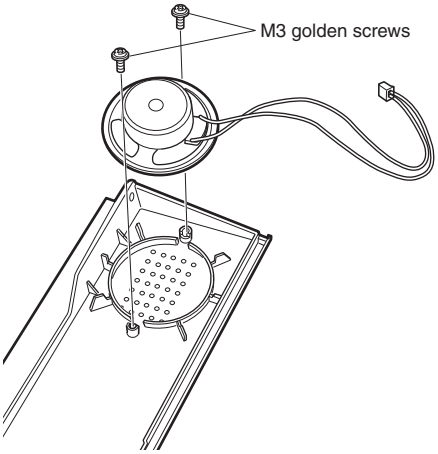
1) Remove the shielding plate and the left rear cabinet.
   Remove the five screws that fix the shielding plate and then remove the shielding plate by inserting a flat-blade screwdriver.
   Then, remove the two screws that secure the left rear cabinet and slide the cabinet toward the rear side of the main unit to remove it.



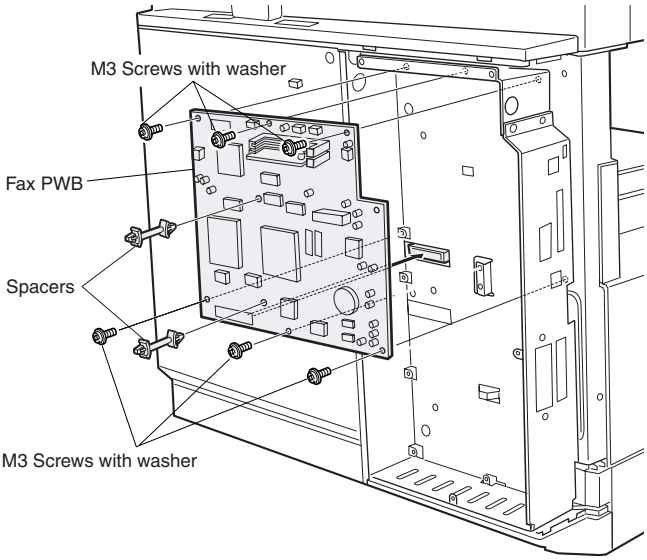
2) Work the left rear cabinet.
   Cut and remove the cut-out portion from the left rear cabinet using a tool such as nippers.
   Be careful about the direction of the tool so that the cut surface is flat.



3) Attach the speaker.
   Attach the speaker to the left rear cabinet using supplied two golden screws (M3).

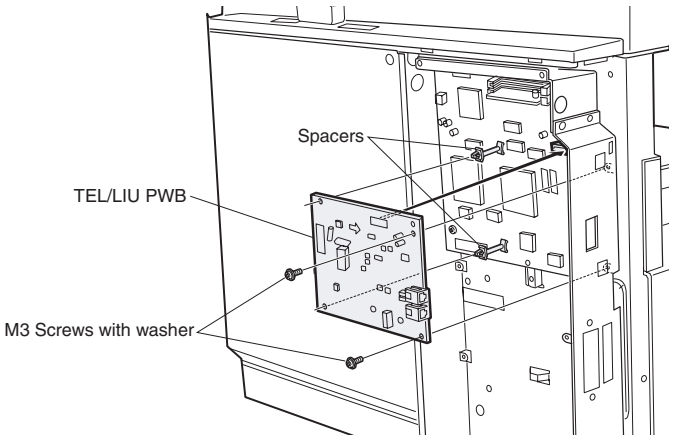


4) Attach the fax PWB
   Mount the two spacers on the fax PWB.
   Then, insert the connector of the FAX PWB to the connector of the FAX expansion PWB and secure it using six M3 screws with washer.



5) Attach the TEL/LIU PWB.

Insert the connector of the TEL/LIU PWB to the connector of the FAX PWB, fit two spacers to the TEL/LIU PWB, and attach the TEL/LIU PWB using two M3 screws with washer.



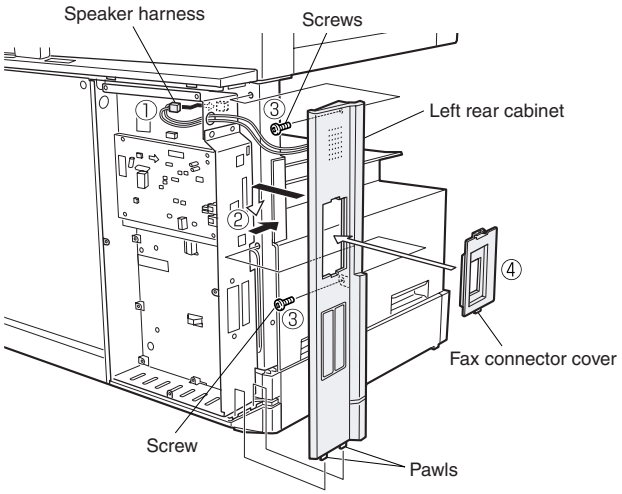
6) Reattach the left rear cabinet.

<1> Pass the speaker harness through the hole of the frame of the fax expansion PWB and connect it to the connector of the fax PWB.

<2> Fit the pawls of the left rear cabinet to the mounting portions of the main unit. Slide the cabinet toward the front of the main unit to attach it.

<3> Secure the left rear cabinet using two screws.

<4> Attach the supplied fax connector cover.

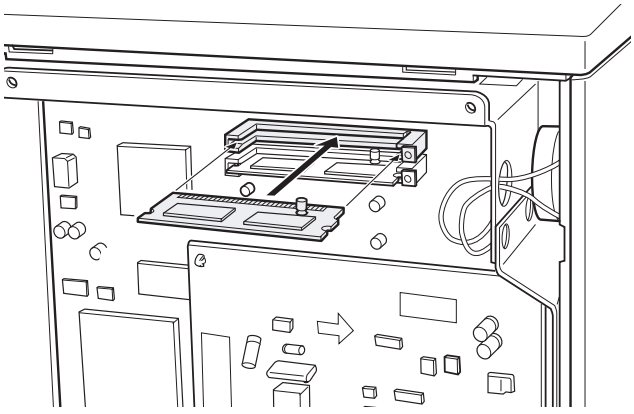


<Step for mounting extended memory (AR-MM9)>

If you need not to mount an extended memory, proceed to step 8.

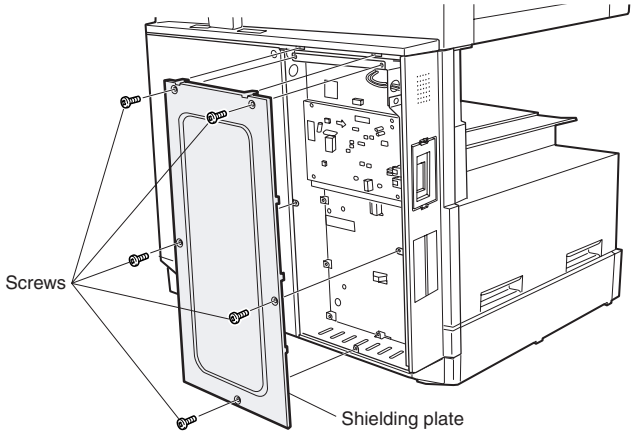
7) Mount an additional memory (AR-MM9)

Insert the additional memory into the socket on the FAX PWB.



8) Reattach the shielding plate.

Fit the pawls of the shielding plate to the main unit and secure the plate using five screws.



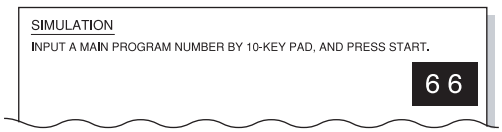
Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

9) Clear the image memory.

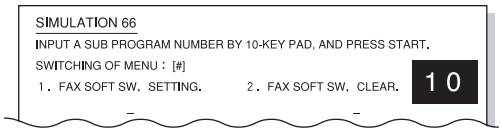
* If an extended memory (AR-MM9) has been mounted in step 7, be sure to carry out this step.
If no extended memory has been mounted, this step is not necessary.

<1> [P], [*], [C], and [*] to enter the simulation mode.

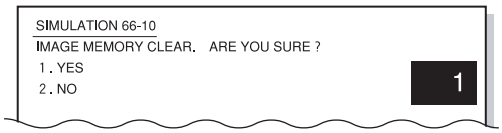
<2> Use the 10-key pad to enter “66” in the main code entry screen shown below and press the START key.



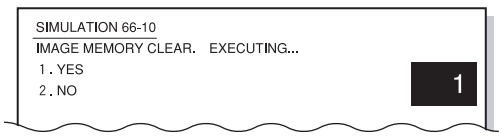
<3> Use the 10-key pad to enter “10” in the sub-code entry screen shown below.


SIMULATION 66
INPUT A SUB PROGRAM NUMBER BY 10-KEY PAD, AND PRESS START.
SWITCHING OF MENU : [#]
1. FAX SOFT SW, SETTING.
2. FAX SOFT SW, CLEAR.
1 0

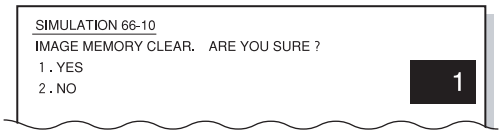
<4> Use the 10-key pad to enter “1” in the submenu screen shown below and press the START key.



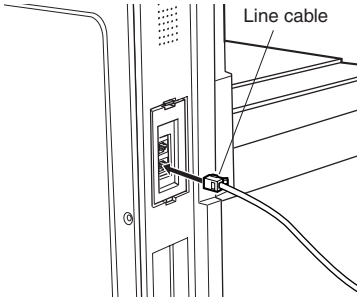
<5> The screen shown below is displayed and memory clear operation is executed to restart the main unit.



<6> After several minutes, memory clear operation is completed and then the screen shown below is displayed. Press the Reset key to restart the main unit.

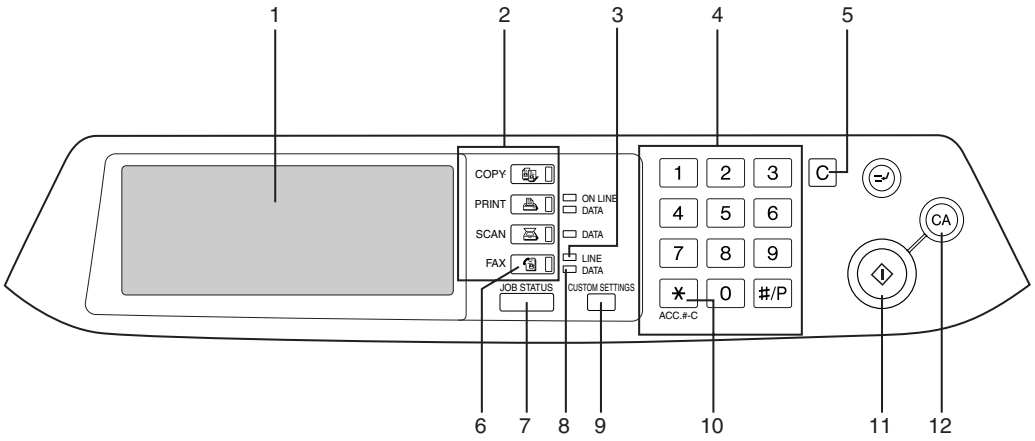


10) Connect the FAX board unit line cable.
Connect the line cable to the FAX board unit.



[4] OPERATION, DISPLAY SECTION

1. Operation panel



No.	Name	Function, operation
1	Touch panel	• Messages and keys appears in the touch panel. A key can be touched to select or enter a setting. • When you touch a key, a beep sounds and the key is highlighted to indicate that it has been selected. • Keys that cannot be selected in a screen are grayed out. If a grayed out key is touched, a double beep will sound to indicate that the key cannot be selected.
2	Mode select keys	Use to select the basic modes of the machine.
3	LINE light	This lights while a fax is being sent or received.
4	Numeric keys	Use for settings that require the entry of numbers.
5	[CLEAR] key	This is used to clear a mistake when entering a number. One digit is cleared each time the key is pressed. The key is also used to cancel scanning of an original.
6	[FAX] key	Press to switch to fax mode. The initial screen of fax mode will appear in the touch panel display.
7	[JOB STATUS] key	Use to check the status of a job.
8	DATA light	This light blinks when a fax has been received to memory. The light stays on constantly when a fax is waiting in memory for transmission.
9	[CUSTOM SETTINGS] key	Use to customize the machine settings to better suit your needs. When using the fax function, destinations can be stored and settings for fax reception and fax forwarding can be selected.
10	[ACC.#-C] key	Press to use the fax function when auditing mode is enabled. This key can also be used to issue tone signals when the machine is connected to a pulse dial line.
11	[START] key	Press to begin scanning an original for fax transmission.
12	[CLEAR ALL] key	Use to cancel a transmission or programming operation. When the key is pressed, the operation is canceled and you return to the initial screen. When sending a fax, this key is also used to cancel an image setting, paper size setting, or special function.

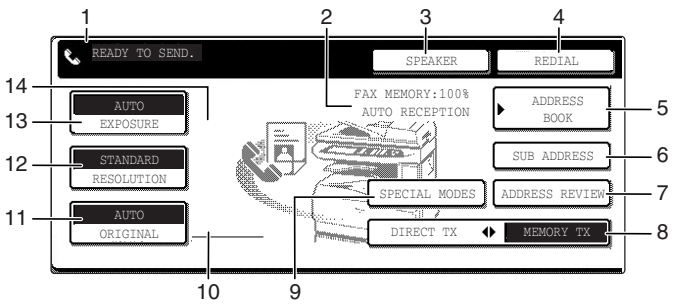
2. FAX mode (Condition setting screen)

The condition setting screen of fax mode is displayed by pressing the [FAX] key while the print mode, copy mode, or job status screen appears in the touch panel. In the explanations that follow, it is assumed that the initial screen that appears after pressing the [FAX] key is the condition setting screen (shown below). If you have set the display to show the address directory when the [FAX] key is pressed, touch the [CONDITION SETTINGS] key in the address directory to display the condition setting screen.

A key operator program can be used to set the display to show either the condition setting screen (shown below) or the address directory screen (p.8) when the [FAX] key is pressed.

A. Condition setting screen

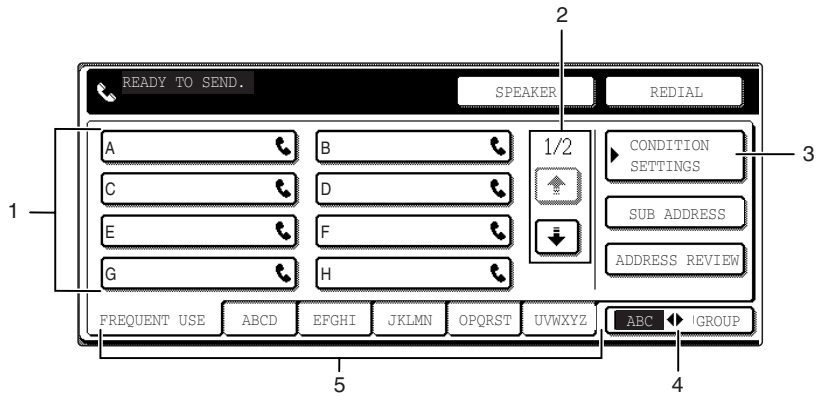
The display is initially set (factory setting) to show the following screen when the [FAX] key is pressed.



No.	Name	Function, operation
1	Message display	Messages appear here to indicate the current status of the machine. When the machine is ready to send, an icon appears to the left.
2	Memory and reception mode display	This shows the amount of fax memory that is free and the currently selected reception mode.
3	[SPEAKER] key	This key is used for dialing with the speaker. During dialing it changes into the [PAUSE] key, and after pressing the [SUB ADDRESS] key it changes into the [SPACE] key.
4	[REDIAL] key	Touch this key to redial the most recently dialed number. After dialing, this key changes into the [NEXT ADDRESS] key.
5	[ADDRESS BOOK] key	This displays the Address Directory screen. Touch this key when you want to use an auto-dial number (one-touch dialing or group dialing).
6	[SUB ADDRESS] key	Touch this key to enter a sub-address or passcode.
7	[ADDRESS REVIEW] key	When performing a broadcast transmission, touch this key to check your selected destinations. A list of your selected destinations will appear, and destinations can be deleted from the list.
8	[DIRECT TX MEMORY TX] key	Touch this key to switch from memory transmission mode to direct transmission mode. The selected mode is highlighted.
9	[SPECIAL MODES] key	Touch this key to select one of the following special functions: Timer transmission, Polling, Slow scan mode, Dual page scan, Program, Memory box, Cover sheet, Adding a message, Special modes
10	Original settings icon display	When two-sided scanning or job build mode is selected (touch the [ORIGINAL] key to select these functions), an icon will appear in this display. The icon can be touched to open the original settings screen.
11	[ORIGINAL] key	Touch this key to manually set the original size or select two-sided scanning.
12	[RESOLUTION] key	Touch this key to change the resolution setting when scanning an original. The selected resolution setting will be highlighted above the key. The initial factory setting is [STANDARD].
13	[EXPOSURE] key	Touch this key to change the scanning exposure. The selected exposure is highlighted above the key. The initial factory setting is [AUTO].
14	Special function icon display	When a special function such as polling or dual page scan is selected, the special function icon appears here.

B. Address directory screen (alphabetically ordered)

If "DEFAULT DISPLAY SETTINGS" is set to address directory, the following screen will be the initial screen that appears when the [FAX] key is pressed.



No.	Name	Function, operation
1	Rapid key display	This shows the rapid keys that have been stored on the selected "index card". The display is initially set to show 8 keys. This can be changed to 6 or 12 using a key operator program.
2	Display switching keys	In cases where the rapid keys cannot all be displayed on one screen, this shows how many screens are left. Touch the [↑] [↓] keys to move through the screens.
3	[CONDITION SETTINGS] key	This displays the condition setting screen, which is used to set various conditions.
4	[ABC/GROUP] key	Touch this key to switch between the alphabetical index and the group index.
5	Index keys	Destinations programmed in rapid keys are stored in indexes. In the alphabetical index, the destinations appear in alphabetical order. In the group indexes, the destinations appear in the order that they were programmed. Touch the [ABC GROUP] key to switch between indexes. The group indexes can be used as follows: • For storing destinations in groups. • A name can be assigned to each index. • Frequently used destinations can be stored in the FREQUENT USE index. Destinations in the FREQUENT USE index appear in the order that they were programmed.

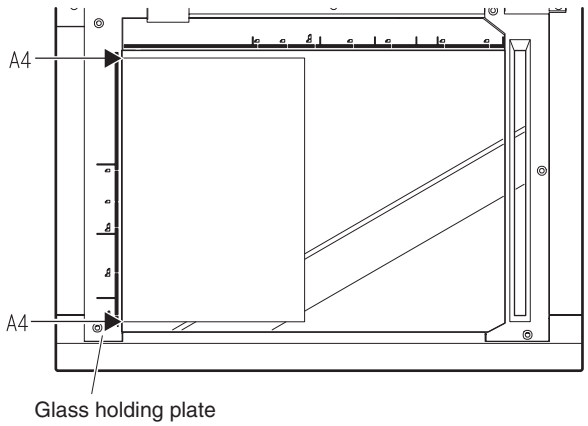
[5] ADJUSTMENTS

Section		Adjustment items		Adjustment procedures	
1	Density section	A	FAX mode density adjustment (Overall mode)		<FAX mode> SIM 46-12
		B	FAX mode density adjustment (Individual mode)		<FAX mode> SIM 46-13 – 46-16
2	Communication section	A	Dial test		<FAX mode> SIM 66-14, 66-16

1. Density section

A. FAX mode density adjustment (Overall mode) (<FAX mode> SIM 46-12)

1) Set the test chart (TPAP-2109SCZZ <CCITT #3 chart>) on the OC table as shown below, and close the OC cover.



2) Switch to the FAX mode and execute SIM 46-12.
3) After warming up, shading is performed and the current density level is displayed on the lower two digits of the display section in standard and auto density mode.
4) Enter the set value with the 10-key to adjust the FAX image density.
5) Make a copy, and adjust so that the following adjustment specification is satisfied.

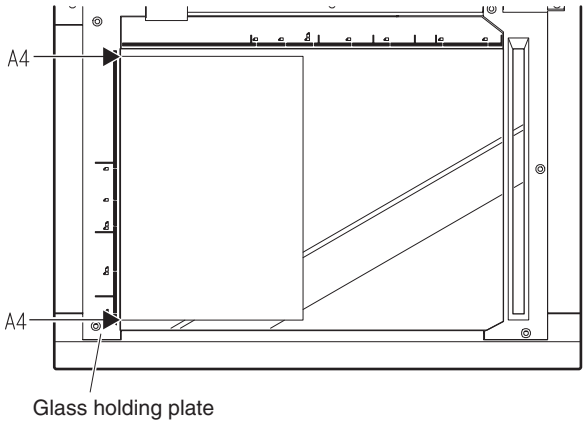
* When an adjustment is made in this mode, the exposure level for each communication mode and each density mode are automatically adjusted accordingly.

<Adjustment specifications>

Density mode	Resolution mode	SIM	CCITT #3 chart output result	Set value	Set range
Auto	Standard	FAX mode 46-12	"3" is slightly copied.	The greater the set value is, the greater the density is, and vice versa.	0 – 99

B. FAX mode density adjustment (Individual mode) (<FAX mode> SIM 46-13 – 16)

1) Set the test chart (TPAP-2109SCZZ <CCITT #3 chart>) on the OC table as shown below, and close the OC cover.



2) Switch to the FAX mode and execute SIM 46-13 to 46-16 depending on the adjustment mode.
3) After warming up, shading is performed and the current density level is displayed on the lower two digits of the display section.
4) Enter the set value with the 10-key to adjust the FAX image density.
5) Make a copy, and adjust the density with the copy as a reference.

<Adjustment specifications>

Resolution mode	Density changeover	SIM	Set value	Set range
Standard	Switched with the density select key.	FAX mode 46-13	The greater the set value is, the greater the density is, and vice versa.	0 – 99
Fine	Switched with the density select key.	FAX mode 46-14		
Super fine	Switched with the density select key.	FAX mode 46-15		
Ultra fine	Switched with the density select key.	FAX mode 46-16		

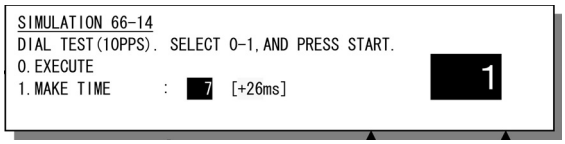
2. Communication section

Note: These items are factory adjusted when shipping according to FCC standards. Therefore, do not change the setting in the market.

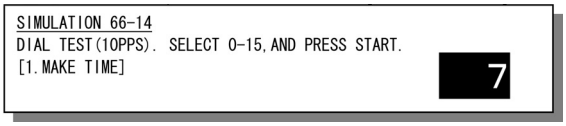
A. Dial test (<FAX mode> SIM 66-14, 16)

(1) Dial pulse transmission test

1) Execute SIM 66-14 in FAX mode.
2) Select the item with the 10-key, and press the [START] key.



3) Set the make time with the 10-key.



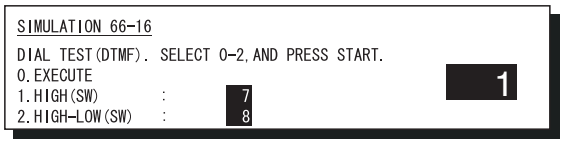
The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

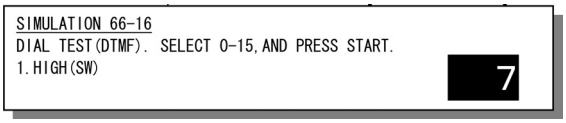
		SIM	Soft SW	Initial value	Set value	
Dial pulse make time	10 PPS	FAX mode 66-14	SW 25-1 to 4	40ms (14)	SW set value: 0 to 15 Make time: 26 to 41ms	1ms step (Binary input)

(2) DTMF signal transmission level adjustment

1) Execute SIM 66-16 in the FAX mode.
2) Select the item with the 10-key, and press the [START] key.

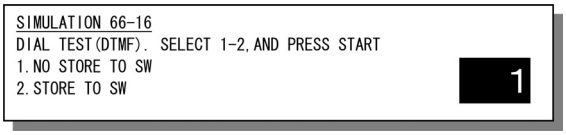


3) Enter the set value with the 10-key, and press the [START] key.



The sending dial cannot be interrupted.

4) Select the soft SW reflection.



		SIM	Soft SW	Initial value	Set value	
DTMF transmission level	High group	(FAX mode) 66-16 (Test only)	SW 64-4 to 8	–6dBm	SW set value: 0 to 21 Transmission level: 0.0 to –21dB	1dBm step (Binary input)
	High group – Low group		SW 65-5 to 8	+2.0 dBm	SW set value: 0 to 15 Transmission level: 2.0 to 5.5dB	0.5dBm step (Binary input)

[6] SIMULATION

1. Code-type simulation

A. Operating procedures and operations

* Entering the simulation mode

1) #/P key (program) ON → Asterisk (*) key ON → CLEAR key ON → Asterisk (*) key ON → Ready for input of a main code of simulation
2) Entering a main code with the 10-key → START key ON
3) Entering a sub code with the 10-key → START key ON
4) Select an item with the scroll key and the item key.
5) The machine enters the mode corresponding to the selected item.
   Press START key to start the simulation operation.
   To cancel the current simulation mode or to change the main code and the sub code, press the CUSTOM SETTINGS key.

* Canceling the simulation mode to return to the normal mode

1) Press CLEAR ALL key.

2. Simulation code list

Code		Function
Main	Sub	
22	5	Used to check the ROM version of each unit (section).
	11	Used to display the FAX send/receive counter (FAX reception and print counter).
24	10	FAX counter data clear
46	12	FAX exposure level adjustment (1 mode automatic adjustment)
	13	FAX exposure level adjustment (Normal mode individual adjustment)
	14	FAX exposure level adjustment (Fine text mode individual adjustment)
	15	FAX exposure level adjustment (Super Fine mode individual adjustment)
	16	FAX exposure level adjustment (Ultra Fine mode individual adjustment)
48	8	FAX magnification adjustment (read)
	9	FAX magnification adjustment (print)
50	8	FAX lead edge adjustment (read)
	9	FAX lead edge adjustment (print)
66	1	Used to change and check the FAX-related soft SW.
	2	Used to clear the FAX-related soft SW. (Except for the FAX adjustment values)
	3	FAX PWB memory check
	4	Signal send mode (Signal send level: Max.)
	5	Signal send mode (Signal send level soft SW setting)
	6	Printing the confidential password
	7	Print the screen memory contents
	8	Voice Message send (Signal send level: Max.) (print) (Japan only)
	9	Used to send the voice message. (Signal send level: Set by soft SW.)
	10	Image data memory clear
	11	Used to send 300bps signals. (Signal send level: Max.)
	12	Used to send 300bps signals. (Signal send level: Set by soft SW)
	13	Used to register the dial numbers.
	14	Used to perform the dial test. (10 PPS send test)
	15	Used to perform the dial test. (20 PPS send test)
	16	Used to perform the dial test. (DTMF signal send test)
	17	Used to check the DTMF signal send operation. (Signal send level: Max.)
	18	Used to check the DTMF signal send operation. (Signal send level: Set by soft SW.)
	19	Used to write the SRAM data to the Flash ROM.
	20	Used to write the Flash ROM data to the SRAM.
	21	FAX information print
	22	Handset sound volume adjustment (Japan only)
	24	Used to clear the FAST storage data. (SEC only)
	30	Used to set the TEL/LIU.
	31	Used to set the TEL/LIU.
	32	Receive data check
	33	Signal detection check
	34	Communication time measurement display
	37	Speaker sound volume adjustment
	41	CI signal check
	52	Ringer check

3. Details

22

22-5

Purpose	Adjustment/Setting/Check
Function (Purpose)	Used to check the ROM version of each unit (section).
Item	Software

Operation/procedure

Used to display the ROM version of each section.

[Display example]

ROM version 1.250 → [1.25] (up to 2 decimal places)

The display of the protocol monitor and the soft SW follows this display.

S/N	Machine serial number
MCU	Main Control Unit
IMC	IMC
OPE	Panel + Panel label code
PRINTER	PRINTER
NIC	NIC (For the Soft Nic, the Soft Nic version is displayed. When the AR-NC5 is installed, the AR-NC5J version is displayed.)
FINISHER	FINISHER
FAX	FAX

If it is not installed, "- - - - - - - - - -" is displayed.

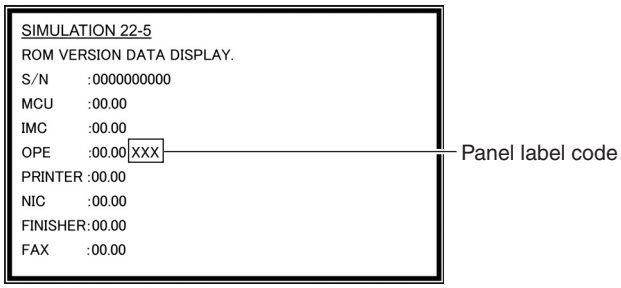
[Label code display]

Contents of "XXX" section on the display below

Panel display	Destination	Selection code		Panel software support language
JPN	Japan			Japanese, American English, English
EFS	SEC	AJ/AM		American English, English, French, Spanish
	SECL	AL/AC		
	SUK	BK/BB		
EEU	SEEG/ SEA/East Europe, etc.	GG/GD		English, German, Polish, Czech, Hungarian, Greek, Turkish, Russian, French, Italian, Slovak

Panel display	Destination	Selection code		Panel software support language
NEU	SEF/ SEES/ SEIS/SEN, etc.	BG/DG/ BD/DD		English, German, French, Spanish, Dutch, Italian, Portuguese, Swedish, Norwegian, Finnish, Danish
	SCA/SCNZ	BA/BN		American English, English, French, Spanish
	Distributor area			
CHN	SOCC	BZ	UE5	Simplified Chinese, American English, English
TWN	Taiwan	BE/BT	UT1	Traditional Chinese (Local support), American English, English
EFS *1	Special countries			American English, English, French, Spanish, Hebrew (Local support)

*1: Display at the current state



22-11

Purpose	Adjustment/setting/operation data output/check (display/print)
Function (Purpose)	Used to display the FAX send/receive counter (FAX reception and print counter).
Section	FAX
Item	Counter

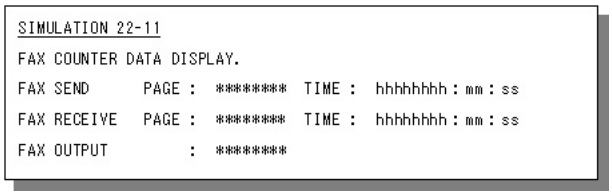
Operation/procedure

Used to display the FAX send/receive counter.

FAX SEND PAGE/TIME	FAX send page and time
FAX RECEIVE PAGE/TIME	FAX receive page and time
FAX OUTPUT	FAX output (number of print)

The counter display is in 7 digits.

Note: Executable only when the FAX is installed.


SIMULATION 22-11
FAX COUNTER DATA DISPLAY.
FAX SEND PAGE : ******** TIME : hhhhhhhh : mm : ss
FAX RECEIVE PAGE : ******** TIME : hhhhhhhh : mm : ss
FAX OUTPUT : ********

24

24-10

Purpose	Data clear
Function (Purpose)	FAX counter data clear
Section	FAX
Item	Counter

Operation/procedure

1. Select the "3: NUMBER OF PRINTS", and press the [START] key. The confirmation menu is shown.
2. Select "1: YES."
   1: YES (Cleared)
   2: NO (Not cleared) (Default)

Item		Content
1	FAX SEND (PAGE & TIME)	FAX send page and time
2	FAX RECEIVE (PAGE & TIME)	FAX receive page and time
3	FAX OUTPUT	FAX output (number of prints)

Note: Executable only when the FAX is installed.

46

46-12

Purpose	Adjustment
Function (Purpose)	FAX exposure level adjustment (1 mode automatic adjustment)
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START."
   The currently set value is displayed beside the item.
2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
3. Press the [START] key.
   Copying is started and the set value is stored.

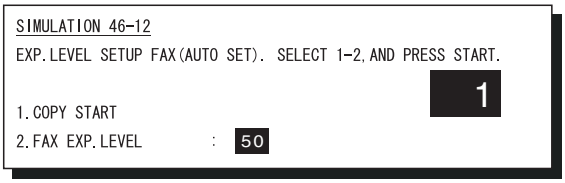
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

Item		Setting range	Default
1	COPY START	–	–
2	FAX EXP.LEVEL	0-99	50

Note: Executable only when the FAX is installed.



46-13

Purpose	Adjustment
Function (Purpose)	FAX exposure level adjustment (Normal mode individual adjustment)
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START."
   The currently set value is displayed beside the item.
2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
3. Press the [START] key.
   Copying is started and the set value is stored.

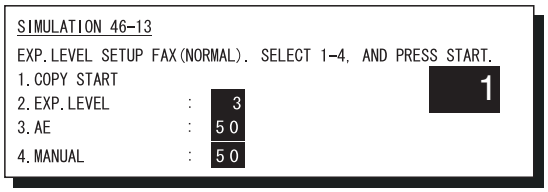
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	–	–
2	EXP.LEVEL	Exposure level selection	0-99	50
3	AE	Normal text AE		
4	MANUAL	Normal text MANUAL		

Note: Executable only when the FAX is installed.



46-14

Purpose	Adjustment
Function (Purpose)	FAX exposure level adjustment (Fine text mode individual adjustment)
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START."
   The currently set value is displayed beside the item.
2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
3. Press the [START] key.
   Copying is started and the set value is stored.

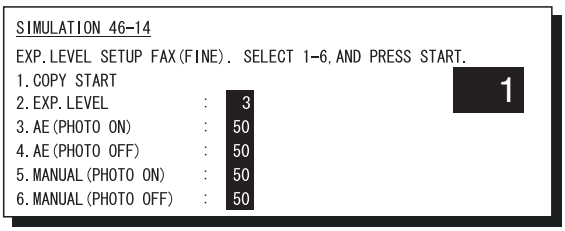
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	–	–
2	EXP.LEVEL	Exposure level selection	0-99	50
3	AE (PHOTO ON)	Fine text AE (Half tone)		
4	AE (PHOTO OFF)	Fine text AE		
5	MANUAL (PHOTO ON)	Fine text MANUAL (Half tone)		
6	MANUAL (PHOTO OFF)	Fine text MANUAL		

Note: Executable only when the FAX is installed.


SIMULATION 46-14
EXP.LEVEL SETUP FAX(FINE). SELECT 1-6, AND PRESS START.
1. COPY START
2. EXP.LEVEL : 3
3. AE(PHOTO ON) : 50
4. AE(PHOTO OFF) : 50
5. MANUAL(PHOTO ON) : 50
6. MANUAL(PHOTO OFF) : 50
1

46-15

Purpose	Adjustment
Function (Purpose)	FAX exposure level adjustment (Super Fine mode individual adjustment)
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START."
   The currently set value is displayed beside the item.
2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
3. Press the [START] key.
   Copying is started and the set value is stored.

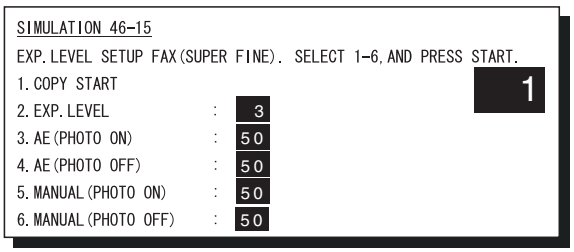
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	–	–
2	EXP.LEVEL	Exposure level selection	0 - 99	50
3	AE (PHOTO ON)	Super Fine AE (Half tone)		
4	AE (PHOTO OFF)	Super Fine AE		
5	MANUAL (PHOTO ON)	Super Fine MANUAL (Half tone)		
6	MANUAL (PHOTO OFF)	Super Fine MANUAL		

Note:Executable only when the FAX is installed.


SIMULATION 46-15
EXP.LEVEL SETUP FAX(SUPER FINE). SELECT 1-6, AND PRESS START.
1. COPY START
2. EXP.LEVEL : 3
3. AE(PHOTO ON) : 50
4. AE(PHOTO OFF) : 50
5. MANUAL(PHOTO ON) : 50
6. MANUAL(PHOTO OFF) : 50
1

46-16

Purpose	Adjustment
Function (Purpose)	FAX exposure level adjustment (Ultra Fine mode individual adjustment)
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START."
   The currently set value is displayed beside the item.
2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.

3. Press the [START] key.
   Copying is started and the set value is stored.

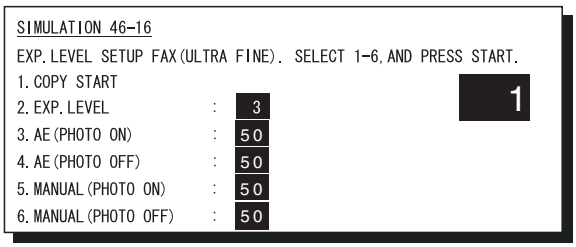
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

	Item	Content	Setting range	Default
1	COPY START	Copy start	–	–
2	EXP.LEVEL	Exposure level selection	0 - 99	50
3	AE (PHOTO ON)	Ultra Fine AE (Half tone)		
4	AE (PHOTO OFF)	Ultra Fine AE		
5	MANUAL (PHOTO ON)	Ultra Fine MANUAL (Half tone)		
6	MANUAL (PHOTO OFF)	Ultra Fine MANUAL		

Note: Executable only when the FAX is installed.


SIMULATION 46-16
EXP. LEVEL SETUP FAX(ULTRA FINE). SELECT 1-6, AND PRESS START.
1. COPY START
2. EXP. LEVEL : 3
3. AE (PHOTO ON) : 50
4. AE (PHOTO OFF) : 50
5. MANUAL (PHOTO ON) : 50
6. MANUAL (PHOTO OFF) : 50
1

48

48-8

Purpose	Adjustment
Function (Purpose)	FAX magnification adjustment (read)
Section	FAX
Related soft SW	SW112-1 to 8, SW113-1 to 8

Operation/procedure

1. Select "1: COPY START."
   The currently set value is highlighted beside the item.
2. Enter the set value of magnification with the 10-key, and press the [#/P] key.
3. Press the [START] key.
   Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no operation of tray selection.

The optimum paper tray for the scanned size is selected.

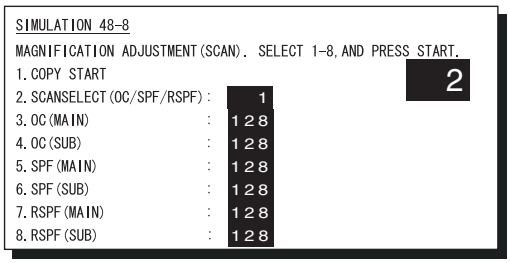
Even when the SPF/RSPF is selected, if there is no original on the SPF/RSPF, the OC is scanned.

Even when the OC is selected, if there is any original on the SPF/RSPF, the SPF/RSPF is scanned. (Setting 2)

	Item	Content	Setting range	Default
1	COPY START	Copy start	–	–
2	SCAN SELECT (OC/SPF/RSPF)	Scan selection (OC/ SPF/ RSPF)	1-255*	128
3	OC(MAIN)	SCAN Main scanning magnification ratio adjustment (OC)	1-255*	128
4	OC(SUB)	SCAN Sub scanning magnification ratio adjustment (OC)	1-255*	128
5	SPF(MAIN)	SCAN Main scanning magnification ratio adjustment (SPF)	1-255*	128
6	SPF(SUB)	SCAN Sub scanning magnification ratio adjustment (SPF)	1-255*	128
7	RSPF(MAIN)	SCAN Main scanning magnification ratio adjustment (RSPF)	1-255*	128
8	RSPF(SUB)	SCAN Sub scanning magnification ratio adjustment (RSPF)	1-255*	128

* The adjustment can be made in the range of -12.7% - +12.7% by the increment of 0.1%.

Note: Executable only when the FAX is installed.



48-9

Purpose	Adjustment
Function (Purpose)	FAX magnification adjustment (print)
Section	FAX

Operation/procedure

1. Select "1: COPY START."
   The currently set value is displayed beside the item.
2. Press the [START] key.
   Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

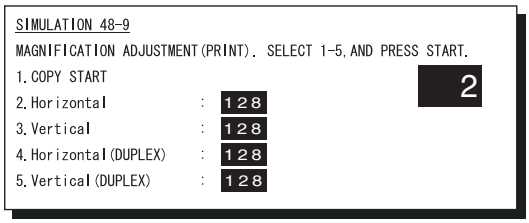
There is no operation of tray selection.

The optimum paper tray for the scanned size is selected.

When two pages are scanned, duplex printing is made.

	Item	Content	Setting range	Default
1	COPY START	Copy start	1-255	128
2	Horizontal	Print magnification ratio adjustment (Horizontal, vertical to paper passing)	1-255	128
3	Vertical	Print magnification ratio adjustment (Vertical, parallel to paper passing)	1-255	128
4	Horizontal (DUPLEX)	Print magnification ratio adjustment on the back surface (Horizontal, vertical to paper passing)	1-255	128
5	Vertical (DUPLEX)	Print magnification ratio adjustment on the back surface (Vertical, parallel to paper passing)	1-255	128

Note: Executable only when the FAX is installed.



50

50-8

The adjustments on the machine side must have been normally completed.

Purpose	Adjustment
Function (Purpose)	FAX lead edge adjustment (read)
Section	FAX

Operation/procedure

1. Select "1: COPY START."
   The currently set value is highlighted beside the item.
2. Enter the correction value with the 10-key, and press the [#/P] key.
3. Press the [START] key.
   Copying is started.

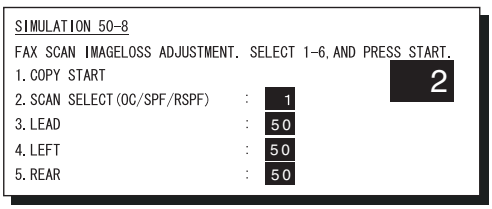
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

   There is no tray selection operation.
   The optimum paper tray for the scanned size is selected.
4. Select the scanning method.

Even when the SPF/RSPF is selected, if there is no original on the SPF/RSPF, the OC is scanned.
Even when the OC is selected, if there is any original on the SPF/RSPF, the SPF/RSPF is scanned. (Setting 2)

Item		Content	Setting range	Default
1	COPY START	Copy start	–	–
2	SCAN SELECT (OC/SPF/RSPF)	Scan selection (1: OC, 2: SPF, 3: RSPF back)	1-3	1
3	LEAD	Scan lead edge position adjustment value of the selected method in 2.	43-57	50
4	LEFT	Scan left edge position adjustment value of the selected method in 2.	43-57	50
5	REAR	Scan rear edge position adjustment value of the selected method in 2.	43-57	50
6	RIGHT	Scan right edge position adjustment value of the selected method in 2.	43-57	50

Note: Executable only when the FAX is installed.



50-9

Purpose	Adjustment
Function (Purpose)	FAX lead edge adjustment (print)
Section	FAX

Operation/procedure

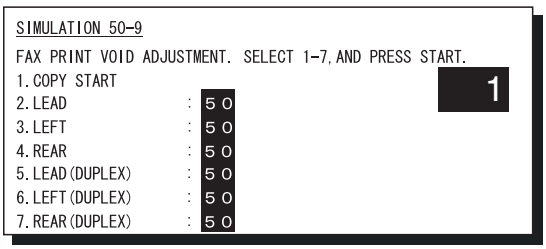
1. Select "1: COPY START."
   The currently set value is highlighted beside the item.
2. Press the [START] key.
   Copying is started.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.
The optimum paper tray for the scanned size is selected.
When two pages are scanned, duplex print is made,

Item		Content	Setting range	Default
1	COPY START	Copy start	–	–
2	LEAD	Print lead edge void adjustment value (Front surface)	43-57	50
3	LEFT	Print left edge void adjustment value (Front surface)	43-57	50
4	REAR	Print rear edge void adjustment value (Front surface)	43-57	50
5	LEAD (DUPLEX)	Print lead edge void adjustment value (Back surface)	43-57	50
6	LEFT (DUPLEX)	Print left edge void adjustment value (Back surface)	43-57	50
7	REAR (DUPLEX)	Print rear edge void adjustment value (Back surface)	43-57	50

Note: Executable only when the FAX is installed.



66

66-1

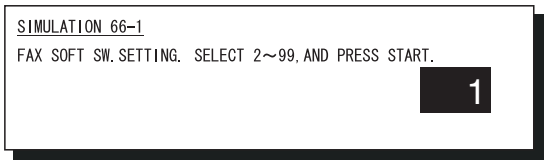
Purpose	Setting
Function (Purpose)	Used to change and check the FAX-related soft SW.
Section	FAX

Operation/procedure

1. Enter the soft SW number to be selected with the 10-key.
2. Check and change the setting content of the selected soft SW.
3. Press the [START] key to save the set content.

The FAX-related soft SW is displayed on the LCD, and changing can be made by monitoring it.

Note: Executable only when the FAX is installed.



66-2

Purpose	Adjustment
Function (Purpose)	Used to clear the FAX-related soft SW. (Except for the FAX adjustment values)
Section	FAX

Operation/procedure

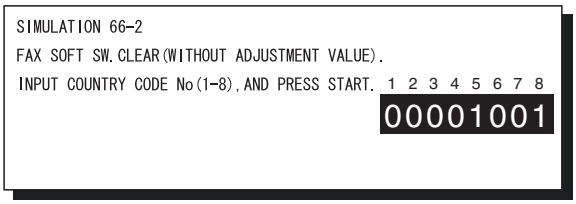
1. Enter the country code with the 10-key, and press the [START] key.
2. When "1: (YES)" is selected, the soft SW corresponding to the country code is cleared. When "2: (NO)" is selected, the simulation is canceled.

Country code

Japan	: 00000000	India	: 01010011
U.S.A./Canada	: 10110101	Hong Kong	: 01010000
Australia	: 00001001	Spain	: 10100000
U.K.	: 10110100	Portugal	: 10001011
France	: 00111101	Italy	: 01011001
Germany	: 00000100	Switzerland	: 10100110
Sweden	: 10100101	Finland	: 00111100
New Zealand	: 01111110	Denmark	: 00110001
China	: 00100110	Norway	: 10000010
Singapore	: 10011100	Netherlands	: 01111011
Taiwan	: 11111110	Luxembourg	: 01101001
Middle East	: 11111101	Belgium	: 00001111
Malaysia	: 01101100		

The codes other than the above are accepted as Japan.

Note: Executable only when the FAX is installed.



66-3

Purpose	Operation test/check
Function (Purpose)	FAX PWB memory check
Section	FAX
Item	Operation

Operation/procedure

Press the [START] key.

Read/write can be checked for FAX PWB memory.

The check result is displayed separately for each memory.

1. Memory to be checked

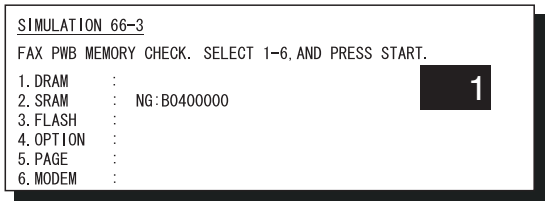
DRAM		
SRAM		
Flash ROM	Program area	SUM check only
	Memory area	
Option memory		The memory size follows the automatically detected value.
PAGE		

2. Detailed procedure

1	"55H" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.
2	"AAH" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.
3	"00H" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.
4	Perform checks 1 - 3 sequentially. If there is no abnormality, it is "OK." If there is any abnormality, "NG" is notified to the error address.
5	After completion of check, the memory is returned to the initial state. (CPU is not reset)

Interruption cannot be made during operation.

Note: Executable only when the FAX is installed.



66-4

Purpose	Operation test/check
Function (Purpose)	Signal send mode (Signal send level: Max.)
Section	FAX
Item	Operation

Operation/procedure

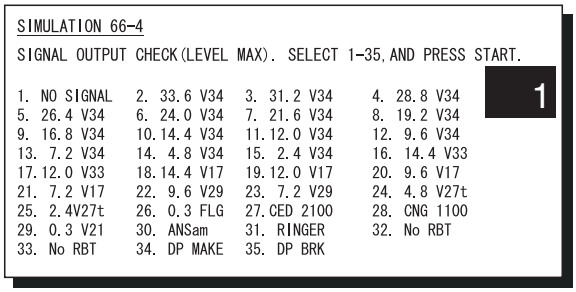
Select the signal number with the 10-key, and press the [START] key. The signal is sent to the line and the machine speaker. (Sending the signal is continued until the [CUSTOM SETTINGS] key is pressed.)

By entering the signal number and pressing the [START] key during execution, the signal kind can be changed.

Item		Send signal	Send level Selection menu
1	NO SIGNAL	Signal not sent	None
2	33.6 V34	–	–
3	31.2 V34	–	–
4	28.8 V34	–	–
5	26.4 V34	–	–
6	24.0 V34	–	–
7	16.0 V34	–	–
8	19.2 V34	–	–
9	16.8 V34	–	–
10	14.4 V34	–	–
11	12.0 V34	–	–
12	9.6 V34	–	–
13	7.2 V34	–	–
14	4.8 V34	–	–
15	2.4 V34	–	–
16	14.4 V33	–	–
17	12.0 V33	–	–
18	14.4 V17	–	–
19	12.0 V17	–	–
20	9.6 V17	–	–
21	7.2 V17	–	–
22	9.6 V29	–	–
23	7.2 V29	–	–
24	4.8 V27t	–	–

Item		Send signal	Send level Selection menu
25	2.4 V27t	–	–
26	0.3 FLG	7EH Flag signal	Yes
27	CED2100	Tone signal	Yes
28	CNG1100		
29	0.3 V21		
30	ANSam		
31	RINGER	Pseudo-ringer sound ([ON HOOK] key ON)	None
32	No MSG	Voice message (no sound)	None
		Under the state where the ring back tone can be sent to the line, keep the sound composition IC volume to 0.	
33	No RBT	Ring back tone (no sound)	None
		Under the state where the ring back tone can be sent to the line, keep the G/A volume to 0.	
34	DP MAKE	Dial pulse (make)	1: 0dB 2: Soft SW
		Maintain the make state with keeping the condition to be able to send to the dial pulse line.	
35	DP BRK	Dial pulse (break)	1: 0dB 2: Soft SW
		Maintain the break state with keeping the condition to be able to send to the dial pulse line.	

Note: Executable only when the FAX is installed.



66-5

Purpose	Operation test/check
Function (Purpose)	Signal send mode (Signal send level soft SW setting)
Section	FAX
Item	Operation

Operation/procedure

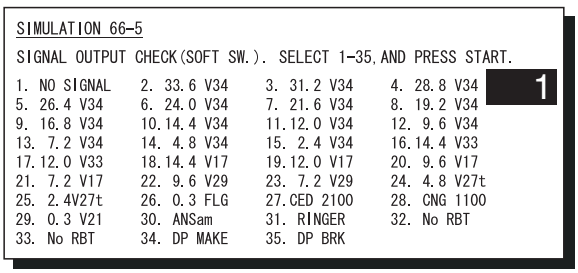
Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, signals are sent to the line and the machine speaker. (Sending signals is continued until interruption command is made (by pressing [CUSTOM SETTINGS] key.)

By entering the signal number and pressing the [START] key during execution, the signal kind can be changed.

Signal number		Send signal	Send level Selection menu
1	NO SIGNAL	Signal not sent	None
2	33.6 V34	33.6 V34	–
3	31.2 V34	31.2 V34	–
4	28.8 V34	28.8 V34	–
5	26.4 V34	26.4 V34	–
6	24.0 V34	24.0 V34	–
7	16.0 V34	16.0 V34	–
8	19.2 V34	19.2 V34	–
9	16.8 V34	16.8 V34	–
10	14.4 V34	14.4 V34	–
11	12.0 V34	12.0 V34	–
12	9.6 V34	9.6 V34	–
13	7.2 V34	7.2 V34	–
14	4.8 V34	4.8 V34	–
15	2.4 V34	2.4 V34	–
16	14.4 V33	14.4 V33	–
17	12.0 V33	12.0 V33	–
18	14.4 V17	14.4 V17	–
19	12.0 V17	12.0 V17	–
20	9.6 V17	9.6 V17	–
21	7.2 V17	7.2 V17	–
22	9.6 V29	9.6 V29	–
23	7.2 V29	7.2 V29	–
24	4.8 V27t	4.8 V27t	–
25	2.4 V27t	2.4 V27t	–
26	0.3 FLG	7EH Flag signal	Yes
27	CED2100	Tone signal	Yes
28	CNG1100		
29	0.3 V21		
30	ANSam		
31	RINGER	Pseudo-ringer sound ([ON HOOK] key ON)	None
32	No MSG	Voice message (no sound)	None
		Under the state where the ring back tone can be sent to the line, keep the sound composition IC volume to 0.	
33	No RBT	Ring back tone (no sound)	None
		Under the state where the ring back tone can be sent to the line, keep the G/A volume to 0.	
34	DP MAKE	Dial pulse (make)	1: 0dB 2: Soft SW
		Maintain the make state with keeping the condition to be able to send to the dial pulse line.	
35	DP BRK	Dial pulse (break)	1: 0dB 2: Soft SW
		Maintain the break state with keeping the condition to be able to send to the dial pulse line.	

Note: Executable only when the FAX is installed.



66-6

Purpose	Data output, check	
Function (Purpose)	Printing the confidential password	
Section	FAX	
Item	Data	Confidential/Pass code

Operation/procedure

Press the [START] key.

The confidential ID table (confidential BOX numbers, confidential BOX names, and confidential password) is printed.

The confidential data of My company mode is printed separately.

Note: Executable only when the FAX is installed.

```
SIMULATION 66-6
PASS CODE PRINT OUT. PRESS START.
1. PRINT
                                    1
```

66-7

Purpose	Data output, check	
Function (Purpose)	Print the screen memory contents	
Section	FAX	
Item	Data	Image data

Operation/procedure

Press the [START] key.

Used to input all image data (including confidential reception data, remote send image, not-sent image) stored in image memory of the FAX section.

The output image is remained even after outputting.

Note: Executable only when the FAX is installed.

```
SIMULATION 66-7
IMAGE MEMORY PRINT OUT. PRESS START.
1. PRINT
                                    1
```

66-8

Purpose	Operation test/check
Function (Purpose)	Voice Message send (Signal send level: Max.) (Japan only)
Section	FAX
Item	Operation

Operation/procedure

Select the message number with the 10-key, and press the [START] key.

By setting the message No., the sound message is sent to the line and the speaker of the body. (The message is repeated until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.)

By pressing the [START] key during execution, the signal kind can be changed.

	Item	Voice message
1	NONE	Silent
2	FAX/TEL MSG1	"Hold the line a minute, please send fax." (TEL/FAX voice response)
3	FAX/TEL MSG2	"Hold the line a minute." (TEL/FAX voice response)
4	FAX/TEL MSG3	"Not around here, please send fax." (TEL/FAX voice response)
5	CHANGED RX MSG	"Ding Dong" (Sound delivered when switching to remote reception)
6	RINGER	Call sound
7	EXT.TEL RINGER	External telephone call

Message No. 5 can be heard by an external telephone speaker.

Note: Executable only when the FAX is installed.

```
SIMULATION 66-8
MESSAGE OUTPUT CHECK(LEVEL MAX). SELECT1-7, AND PRESS START.
1. NONE                             2
2. FAX/TEL MSG1
3. FAX/TEL MSG2
4. FAX/TEL MSG3
5. CHNGED RX MSG
6. RINGER
7. EXT. TELRINGER
```

66-9

Purpose	Operation test/check
Function (Purpose)	Used to send the voice message. (Signal send level: Set by soft SW.) (Japan only)
Section	FAX
Item	Operation

Operation/procedure

Select the message number with the 10-key, and press the [START] key.

By setting the message No., the sound message is sent to the line and the speaker of the body. (The message is repeated until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.)

By pressing the [START] key during execution, the signal kind can be changed.

	Item	Voice message
1	NONE	Silent
2	FAX/TEL MSG1	"Hold the line a minute, please send fax." (TEL/FAX voice response)
3	FAX/TEL MSG2	"Hold the line a minute." (TEL/FAX voice response)
4	FAX/TEL MSG3	"Not around here, please send fax." (TEL/FAX voice response)
5	CHANGED RX MSG	"Ding Dong" (Sound delivered when switching to remote reception)
6	RINGER	Call sound
7	EXT.TEL RINGER	External telephone call

Message No. 5 can be heard by an external telephone speaker.

Note: Executable only when the FAX is installed.

```
SIMULATION 66-9
MESSAGE OUTPUT CHECK(SOFT SW.). SELECT1-7, AND PRESS START.
1. NONE                             2
2. FAX/TEL MSG1
3. FAX/TEL MSG2
4. FAX/TEL MSG3
5. CHNGED RX MSG
6. RINGER
7. EXT. TELRINGER
```

66-10

Purpose	Adjustment/Setting/Check	
Function (Purpose)	Image data memory clear	
Section	FAX	
Item	Data	Image data

Operation/procedure

Select "1: YES" with the 10-key and press the [START] key. (When "2: NO" is selected, the simulation is canceled.)

Used to clear all image data (including confidential reception data) stored in image memory of the FAX section.

The management table is also cleared (initialized) at the same time.

* IIf there is any print data, the power must be turned off after clearing.

Note: Executable only when the FAX is installed.

```
SIMULATION 66-10
IMAGE MEMORY CLEAR. ARE YOU SURE?
1. YES                              1
2. NO
```

66-11

Purpose	Operation test/check
Function (Purpose)	Used to send 300bps signals. (Signal send level: Max.)
Section	FAX
Item	Operation

Operation/procedure

Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, the specified signal is delivered to the line at the speed of 300bps. (The signal is continuously sent until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.)

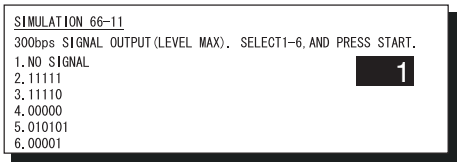
The signal send level can be selected from 0dB or the soft SW set value.

The signal send level is returned to the soft SW set value before execution of the mode after completion of the mode.

By entering the number and pressing the [START] key during execution, the signal kind can be changed.

	Item
1	NO SIGNAL
2	11111
3	11110
4	00000
5	010101
6	00001

Note: Executable only when the FAX is installed.



66-12

Purpose	Operation test/check
Function (Purpose)	Used to send 300bps signals. (Signal send level: Set by soft SW)
Section	FAX
Item	Operation

Operation/procedure

Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, the specified signal is delivered to the line at the speed of 300bps. (The signal is continuously sent until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.)

The signal send level can be selected from 0dB or the soft SW set value.

The signal send level is returned to the soft SW set value before execution of the mode after completion of the mode.

By entering the number and pressing the [START] key during execution, the signal kind can be changed.

	Item
1	NO SIGNAL
2	11111
3	11110
4	00000
5	010101
6	00001

Note: Executable only when the FAX is installed.

66-13

Purpose	Setting
Function (Purpose)	Used to register the dial numbers.
Section	FAX
Item	Operation

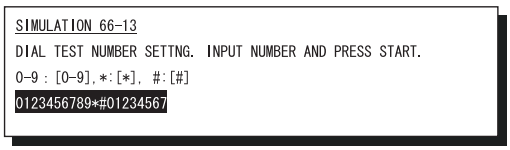
Operation/procedure

Enter the number with the 10-key, [*] key, and [#] key.

Press the [CLEAR] key to return to the initial state.

Press the [START] key to register the entered number.

Note: Executable only when the FAX is installed.



66-14

Purpose	Operation check/test
Function (Purpose)	Used to perform the dial test. (10 PPS send test)
Section	FAX
Item	Operation

Operation/Procedure

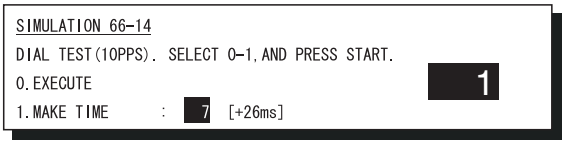
1. Select the item with the 10-key, and press the [START] key.
2. Set the make time with the 10-key.

The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

	Item	Content	Setting range
0	EXECUTE	Execution	–
1	MAKE TIME	Dial pulse make time setting	0-15

Note: Executable only when the FAX is installed.



66-15

Purpose	Operation check/test
Function (Purpose)	Used to perform the dial test. (20 PPS send test)
Section	FAX
Item	Operation

Operation/Procedure

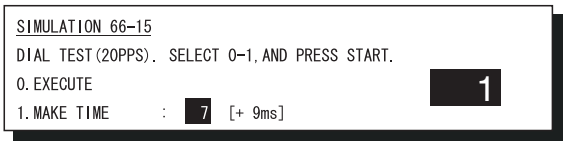
1. Select the item with the 10-key, and press the [START] key.
2. Set the make time with the 10-key.

The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

	Item	Content	Setting range
0	EXECUTE	Execution	–
1	MAKE TIME	Dial pulse make time setting	0-15

Note: Executable only when the FAX is installed.



66-16

Purpose	Operation check/test
Function (Purpose)	Used to perform the dial test. (DTMF signal send test)
Section	FAX
Item	Operation

Operation/Procedure

1. Select the item with the 10-key, and press the [START] key.
2. Enter the set value with the 10-key.

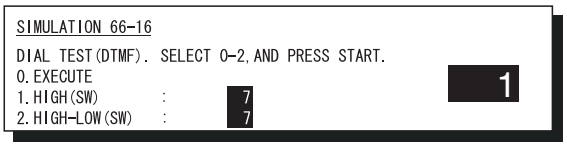
The sending dial cannot be interrupted.

Item		Content	Setting range
0	EXECUTE	Execution	–
1	HIGH (SW)	High group	0-15
2	HIGH-LOW (SW)	High group, Low group	0-15

3. Select the soft SW reflection.

Item		Content
1	NO STORE TO SW	Not reflected.
2	STORE TO SW	Reflected. (Shift SW value changed.)

Note: Executable only when the FAX is installed.



66-17

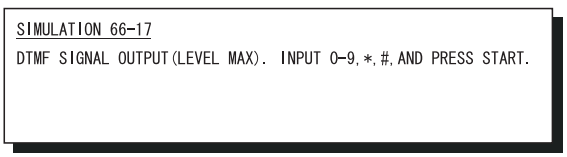
Purpose	Operation check/test
Function (Purpose)	Used to check the DTMF signal send operation. (Signal send level: Max.)
Section	FAX
Item	Operation

Operation/procedure

Enter the DTMF signal (1 digit (1 to 9, 0, *, #)) and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed during execution, the simulation is terminated.

Note: Executable only when the FAX is installed.



66-18

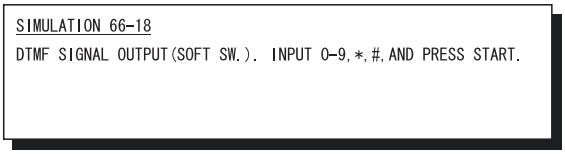
Purpose	Operation check/test
Function (Purpose)	Used to check the DTMF signal send operation. (Signal send level: Set by soft SW.)
Section	FAX
Item	Operation

Operation/Procedure

Enter the DTMF signal (1 digit (1 to 9, 0, *, #)) and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed during execution, the simulation is terminated.

Note: Executable only when the FAX is installed.



66-19

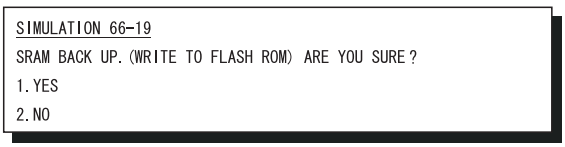
Purpose	Back up
Function (Purpose)	Used to write the SRAM data to the Flash ROM.
Section	FAX
Item	Data

Operation/Procedure

Select "1: YES" with the 10-key, and press the [START] key. The data are backed up. (When "2: NO" is selected, the simulation is canceled.)

* The AR-FX5 data cannot be written into the AR-FX7. If it is executed, data are initialized and deleted. In addition, the AR-FX7 data cannot be used in the AR-FX5.

Note: Executable only when the FAX is installed.



66-20

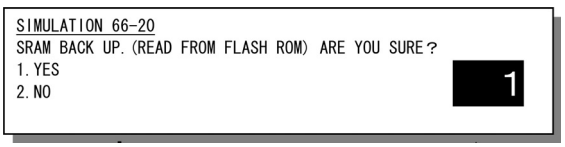
Purpose	Back up
Function (Purpose)	Used to write the Flash ROM data to the SRAM.
Section	FAX
Item	Data

Operation/Procedure

Select "1: YES" with the 10-key, and press the [START] key. The Flash ROM data are read out and written into the SRAM. (When "2: NO" is selected, the simulation is canceled.)

* The AR-FX5 data cannot be written into the AR-FX7. If it is executed, data are initialized and deleted. In addition, the AR-FX7 data cannot be used in the AR-FX5.

Note: Executable only when the FAX is installed.



66-21

Purpose	Check
Function (Purpose)	FAX information print
Section	FAX
Item	Data

Operation/procedure

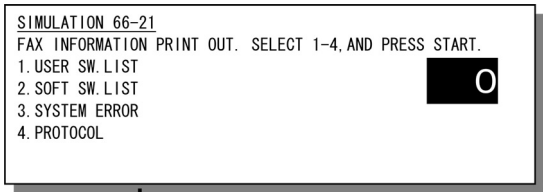
1. Select the item to be printed.
2. Press the [START] key.

The information of the selected item is printed.

Item		Content
1	USER SW.LIST	User setting list
2	SOFT SW.LIST	Soft SW list
3	SYSTEM ERROR	System error list Used to print the system error log (error number and time).

Item		Content
4	PROTOCOL	Protocol error list Regardless of soft SW38-1 status, the protocol monitor of the preceding communication is printed. (Printing is allowed at any time before starting the next communication.) For this operation, the protocol monitor of one communication is always buffered.

Note: Executable only when the FAX is installed.



66-22

Purpose	Setting
Function (Purpose)	Handset sound volume adjustment (Japan only)
Section	FAX
Item	Operation

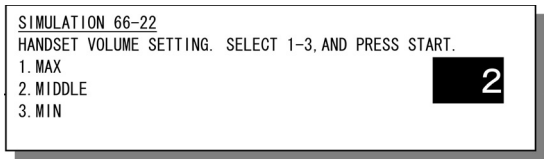
Operation/procedure

1. Select the set volume. (Max., Middle, Min.)
2. Press the [START] key.

Switch of 1, 2, and 3 can be made during execution of the simulation.

During execution of the simulation, sounds are generated.

Note: Executable only when the FAX is installed.



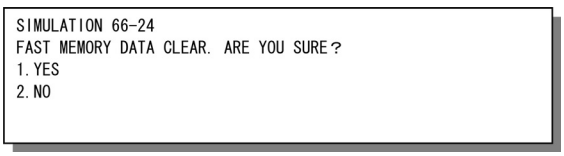
66-24

Purpose	Data clear	
Function (Purpose)	Used to clear the FAST storage data. (SEC only)	
Section	FAX	
Item	Data	Initializing

Operation/procedure

Select "1: YES" with the 10-key and press the [START] key. The FAST storage data are cleared. (When "2: NO" is selected, the simulation is canceled.)

Note: Executable only when the FAX is installed.



66-30

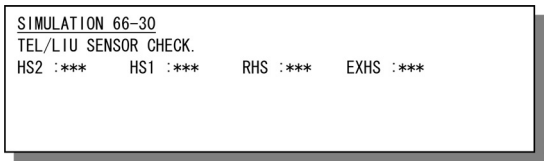
Purpose	Operation test/check
Function (Purpose)	Used to set the TEL/LIU.
Section	FAX
Item	Operation

Operation/procedure

When the relay state of the polarity reverse relay, the handset hook switch, or the external telephone hook switch is changed, the content of change is displayed regardless of the soft SW setup (real time). The display of change is kept until an interruption command is supplied by pressing the [CUSTOM SETTINGS] key.

Item	Notification contents	
	Signal low	Signal high
HS2	ON	OFF
HS1	ON	OFF
RHS	ON	OFF
EXHS	ON	OFF

Note: Executable only when the FAX is installed.



66-31

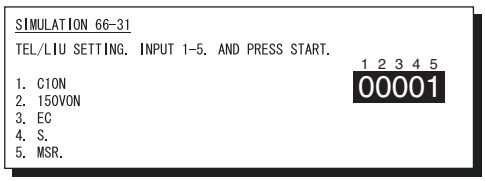
Purpose	Setting
Function (Purpose)	Used to set the TEL/LIU.
Section	FAX
Item	Operation

Operation/Procedure

1. Enter the set value. (Valid only 0 to 8)
2. The entered bit is alternatively switched between "0" and 1" and the target signal name is highlighted.
3. Press the [START] key to send the signal.

When the [CUSTUM SETTINGS] key is pressed, the output is terminated.

Note: Executable only when the FAX is installed.



66-32

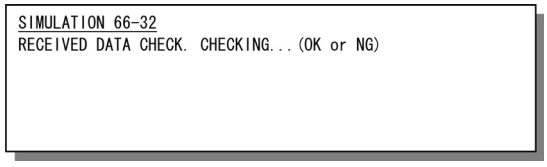
Purpose	Operation test/check
Function (Purpose)	Receive data check
Section	FAX
Item	Operation

Operation/procedure

The fixed data received from the line are checked and the result is displayed.

When data are coincident, "OK" is displayed. When not, "NG" is displayed.

Note: Executable only when the FAX is installed.



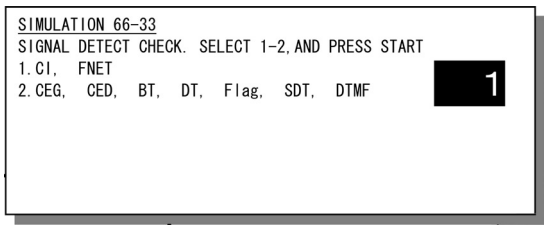
66-33

Purpose	Operation test/check
Function (Purpose)	Signal detection check
Section	FAX
Item	Operation

Operation/Procedure

Signal detection is checked and the result is displayed.

Note: Executable only when the FAX is installed.



66-34

Purpose	Operation test/check
Function (Purpose)	Communication time measurement display
Section	FAX
Item	Operation

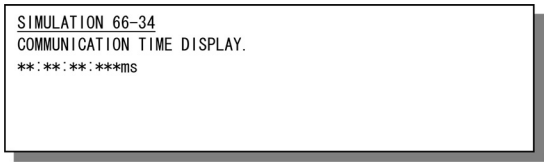
Operation/procedure

The send/receive test is performed, and the time required for send/receive of the image data in the test is measured and displayed.

Setup on the user side when executing communication		Communication means : Memory send Picture quality : Lighter Density : ON ECM : OFF Sender information
Measuring range	Send	From flag reception before sending of image data until sending of RCP frame
	Receive	From flag reception before reception of image data until reception of RCP frame
Mode when measuring		Used to make communication not in a simulation process but in the normal screen and measure the time.
How to check the time		Enter the simulation for communication time check and check the time.
Measuring unit		msec

When there are two or more send/receive operations of image data in one communication, only the time of the last send/receive data near the end is measured.

Note: Executable only when the FAX is installed.



66-37

Purpose	Adjustment/Setting/Check
Function (Purpose)	Speaker sound volume adjustment
Section	FAX

Operation/procedure

The following test sound is delivered to the line and the speaker to adjust the sound kind and volume.

The send level to the line is the set value of soft SW.

The set values of the selected sound kind and volume are written to each soft SW.

1. Sound kinds pattern

Sound kinds (Test sound)		Sound volume set value			
RINGER	Call sound	DEF.	LAR.	MED.	SMA.
LINE MONITO	Line monitor sound (Test sound: communication signal sound)	DEF.	LAR.	MED.	SMA.
ON HOOK	On-hook (Test sound, communication signal sound)	DEF.	LAR.	MED.	SMA.
SCAN FINISH	Scan finish sound	DEF.	LAR.	MED.	SMA.
TX/RX FINISH	Communication finish sound	DEF.	LAR.	MED.	SMA.
DTMF	DTMF send sound	DEF.	LAR.	MED.	SMA.

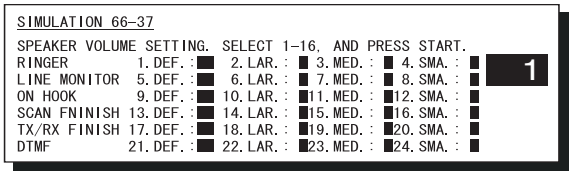
LAR: (MED. Value + 1)

MED: (SMA value +1) - (LAR value - 1)

SMA: 1 - (MED. Value + 1)

2. Sound volume pattern

Note: Executable only when the FAX is installed.


SIMULATION 66-37
SPEAKER VOLUME SETTING. SELECT 1-16, AND PRESS START.
RINGER 1. DEF. : 2. LAR. : 3. MED. : 4. SMA. :
LINE MONITOR 5. DEF. : 6. LAR. : 7. MED. : 8. SMA. :
ON HOOK 9. DEF. : 10. LAR. : 11. MED. : 12. SMA. :
SCAN FNINISH 13. DEF. : 14. LAR. : 15. MED. : 16. SMA. :
TX/RX FINISH 17. DEF. : 18. LAR. : 19. MED. : 20. SMA. :
DTMF 21. DEF. : 22. LAR. : 23. MED. : 24. SMA. :
1

66-41

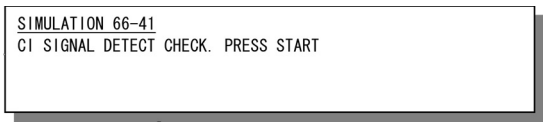
Purpose	Adjustment/Setting/Check
Function (Purpose)	CI signal check

Operation/procedure

When the [START] key is pressed, the call signal from CI pin is detected to deliver the call sound to the line and the speaker. The volume of call sound follows the soft SW.

Signal detection and delivery of pseudo-call sound at detection are executed until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.

Note: Executable only when the FAX is installed.



66-52

Purpose	Operation test/check
Function (Purpose)	Ringer check

Operation/procedure

When the [START] key is pressed, the machine ringer and the pseudo-ringer would ring.

By pressing [CUSTOM SETTINGS] key, the operation can be canceled.

[7] SOFT SWITCH

1. FAX soft switch setting change quick reference table

Large item	Middle item	Switch content	Key operator	Soft SW No.	Usage
Dialing	Remote machine call disable	Pause time	Default setting	SW 28-1 – 4	When dialing disable/when error dialing
		Dial call signal	Default setting	SW 22-5, 6	When dialing disable
		DTMF-related item	None	SW 64-4 – 8	When dialing disable in PBX (private branch exchange/Fax service, etc.)
			None	SW 65-5 – 8	When dialing disable in PBX (private branch exchange/Fax service, etc.)
			None	SW 26-1 – 5	When dialing disable in PBX (private branch exchange/Fax service, etc.)
		Pulse (10PPS)	None	SW 25-1 – 4	When pulse dialing disable
	Signal detection	Busy tone detection	None	SW 21-2	When busy tone detection disable
		Busy tone detection cycle	None	SW 51-1 – 2	When busy tone error is detected
		Dial tone detection	None	SW 21-1	
Redial	In case of an error	Resend interval	Transmitter function setting	SW 14-5 – 8	When send errors occur frequently
	In case of an error	Number of times of resend	Transmitter function setting	SW 14-1 – 4	
	When busy	Resend interval	Transmitter function setting	SW 13-5 – 8	Whey busy occurs frequently
	When busy	Number of times of resend	Transmitter function setting	SW 13-1 – 4	
Arrival (Call-in)	When CI detection disable	CI detection	None	SW 86-2, 3	No call-in
		CI signal OFF detection time	None	SW 87-1 – 7	No call-in
External telephone	Setting of an external telephone connected	Yes/No	Default setting	SW 41-1	When an external telephone is connected
	Remote switch number	Entry of a 2-digit number	Default setting	SW 7-1 – 8	When remote switch is erroneously detected
	Remote switch setting	Yes/No	None	SW 6-8	When remote switch is erroneously detected
Communication	General	Send level	None	SW 15-4 – 8	When the remote machine cannot receive signals in a proper level.
		JBIG mode	None	SW 17-4, 8	When an error occurs in the JBIG mode
	SG3	V34 mode function setup	None	SW 43-1	When SG3 communication error occurs frequently
		V34 symbol rate	None	SW43-4 – 6	When SG3 communication error occurs frequently
Transmission	G3/SG3	DIS reception check	One-touch/ Reduction, etc.	SW 69-8	When an error occurs in phase B
		Line equalizer	None		Setting is made referring to the distance from the station when a communication trouble occurs.
	SG3	V34 send speed	One-touch/ Reduction, etc.		When an error occurs in the SG3 communication.
		Manual send V34	None	SW 42-8	When an error occurs in the SG3 communication in FAX service, etc.
	G3	V29 no modulation carrier	None		When an error occurs in the V29 communication
		Modem send speed	One-touch/ Reduction, etc.	SW 16-1 – 4	To specified/unspecified destination
		RTN reception error	None	SW 73-1	When judged as “OK” though RTN is received
Reception	G3/SG3	CSI transmission	None		
		Maximum reception length	None		When a document of 1m or longer is received
		Proxy reception	None		
		EQM dispersion inhibit	None		When a lot of errors occur due to the poor conditions of the line.
	SG3	V34 reception speed	None		When fall-down occurs frequently in the SG3 communication
	G3	Countermeasure against echo in reception	None		When an error occurs in phase B in reception
		Modem speed in reception	None	SW 16-5, 6	When the line quality is poor and a fall-back or an error occurs
		EYE-Q check only	None	SW 72-7	Change in the detection method of training error

Large item	Middle item	Switch content	Key operator	Soft SW No.	Usage
Reception print	Paper selection	Judgment of sub scan length	None		When printing is not made on desired paper
		Output condition setup	Reception function setup		When divided print instead of reduction print is required
		Automatic reduction print	Reception function setup		When reduction print is not made
		Magnification ratio in automatic reduction	None		When reduction print is not made on a fixed size paper
		Rotation reception print	None		When rotation print is not made
		Reception size setup	Reception function setup		The reception capacity is displayed on the transmitter.
	Index	Index print setup	Reception function setup	SW 40-4	When an index is attached to the reception data

2. Soft SW list

* When a value outside the set range is inputted, the default is automatically set.
* Never change the switch whose item is specified as inhibition.

*: UK = U.K., G = Germany, F = France

SW No.	Data No.	Items	SW selection and functions	Default value	* UK	* G	* F	Remarks
SW1	1	Country information	Binary input Bit No. 1 2 3 4 5 6 7 8 Japan (00000000) U.S.A. / Canada (10110101) Australia (00001001) U.K. (10110100) France (00111101) Germany (00000100) Sweden (10100101) New Zealand (01111110) China (00100110) Singapore (10011100) Taiwan (11111110) Middle East (11111101) Malaysia (01101100) India (01010011) Hong Kong (01010000) Spain (10100000) Portugal (10001011) Italy (01011001) Switzerland (10100110) Finland (00111100) Denmark (00110001) Norway (10000010) Netherlands (01111011) Luxembourg (01101001) Belgium (00001111)	The initial value differs depending on the destination.	1	0	0	
	2				0	0	0	
	3				1	0	1	
	4				1	0	1	
	5				0	0	1	
	6				1	1	1	
	7				0	0	0	
	8				0	0	1	
SW2	1	SIM language information	Bit No. 1 2 Japanese 0 0 English 0 1	English	0	0	0	
	2				0	0	0	
	3	Language information	Binary input Bit No. 3 4 5 6 7 8 1: English 3: French 4: German 5: Italian 6: Dutch 7: Swedish 8: Spanish 9: Portuguese 16: Finnish	The initial value differs depending on the destination.	0	0	0	For English, the proper character is determined by destination information.
	4				0	0	0	
	5				0	0	0	
	6				0	1	0	
	7				1	0	1	
	8				0	0	1	

SW No.	Data No.	Items	SW selection and functions		Default value		Remarks
SW3	1	Sharp machine mode	1: ON	0: OFF	ON	1	
	2	Sharp machine mode (F code)	1: ON	0: OFF	OFF	0	
	3	FAST mode	1: Yes	0: No	No	0	SEC only
	4	Center No. in FAST mode	1: Host-Tel-No.	0: Service-No.	Service-No.	0	
	5	Maintenance cycle	Bit No.	5 6 7	75K	0	Functions in FAST operation.
			75K	0 0 1			
			50K	0 1 0			
	6		25K	0 1 1		0	
			20K	1 0 0			
			10K	1 0 1			
	7		5K	1 1 0		1	
			Free except for the above.				
	8	Maintenance system	1: DM	0: AR	AR	0	
SW4	1	Inhibited to use				1	
	2					0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW5	1	Initialization control inside program	1: The all soft switches are initialized.	0: Does nothing.	Does nothing.	0	Used to restrict initialization inside the program. (Use inhibited)
	2	For FAX debug	1: Debug mode ON	0: Debug mode OFF	Debug mode OFF	0	
	3	Flash memory check measuring range	1: All areas	0: 256byte	256byte	0	
	4	ICU UART1 output	1: Not output	0: Output	Not output	1	
	5	24V reset wait time	Binary input		500ms	1	
	6		Bit No.	5 6 7 8		0	
	7		Setting range	0 to 750ms		1	
	8					0	
SW6	1	Auto/Manual default setup	1: Manual reception	0: Automatic reception	Automatic reception	0	Manual receive setting is enabled only when an external telephone is connected.
	2	Inhibited to use				0	
	3	Size specification	Bit No.	3 4	Follows the machine information.	0	When setting is made to follow the machine information, if the machine information is incomplete, the paper size is set to the centimeter size.
			Centimeter size	0 0			
			Inch size	1 0			
	4		Follows the machine information.	0 1		1	
			Follows the machine information.	1 1			
	5	Inhibited to use				0	
	6	Memory transmission/ direction transmission default setup	1: Direct transmission	0: Memory transmission	Memory transmission	0	
	7	Quick memory transmission	1: Allowed	0: Inhibited	Allowed	1	
	8	Remote reception instruction	1: Yes	0: No	Yes	1	
SW7	1	Remote selection number setup	Binary input		5	0	When a value outside the setting value range is inputted, the initial value is set.
	2		Bit No.	1 2 3 4 5 6 7 8		0	
	3		Setting range	0 to 9 times		0	
	4					0	
	5					0	
	6					1	
	7					0	
	8					1	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW8	1	Image quality priority selection		Bit No.	1 2 3	Standard	0	
				Standard	0 0 0			
				Fine	0 0 1			
	2			Super fine	0 1 0		0	
				Ultra fine	0 1 1			
				Not used	1 0 0			
	3			Fine	1 0 1			
				Super fine + half tone	1 1 0		0	
				Ultra fine + half tone	1 1 1			
	4	Density default setup		Bit No.	4 5 6 7 8	Automatic	0	
				Automatic	0 0 0 0 0			
	5			Light	1 0 0 0 0		0	
				Slightly light	0 1 0 0 0			
	6			Middle	0 0 1 0 0		0	
	7			Slightly dark	0 0 0 1 0		0	
	8			Dark	0 0 0 0 1		0	
SW9	1	Inhibited to use					1	
	2	Transfer function	1: Allowed		0: Inhibited	Allowed	1	
	3	Relay broadcast function	1: Allowed		0: Inhibited	Allowed	1	
	4	Inhibited to use					0	
	5						0	
	6	Cover function default setup	1: Yes		0: No	No	0	
	7	Specified number receive reject	1: Reject		0: Not reject	Not reject	0	
	8	Specified number receive reject I manual receive	1: Reject		0: Not reject	Reject	1	
SW10	1	F-code relay broadcast function	1: Inhibited		0: Allowed	Allowed	0	
	2	F-code confidential reception	1: Inhibited		0: Allowed	Allowed	0	
	3	Yes/No of SUB capacity in reception	1: No		0: Yes	Yes	0	
	4	Yes/No of SEP capacity in reception	1: Inhibited		0: Allowed	Allowed	0	
	5	Yes/No of reception PWD capacity	1: Inhibited		0: Allowed	Allowed	0	
	6	Yes/No of SID capacity in reception	1: Inhibited		0: Allowed	Allowed	0	
	7	Judgment of the system number of bulletin board transmission	1: Allowed		0: Inhibited	Inhibited	0	
	8	Send request protection	1: Not protected		0: Protected	Protected	0	
SW11	1	Inhibited to use					0	
	2						0	
	3	Sender's telephone number registration	1: No		0: Yes	Yes	0	
	4	Yes/No of manual send selection menu display	1: Displayed		0: Not displayed	Displayed	1	
	5	Inhibited to use					0	
	6						0	
	7						0	
	8						0	
SW12	1	Direct send recall Allow/ Inhibit	1: Allowed		0: Inhibited	Inhibited	0	
	2	Manual/Auto reception auto swiching (Inhibited except for France.)	1: Allowed		0: Inhibited	Inhibited	0	
	3	Number of auto switch calls of manual reception → auto reception (Inhibited except for France.)	Binary input	Bit No.	3 4 5 6	9 times	1	When the value is outside the setting range, the initial value is set.
	4			Setting range	1 to 9 times		0	
	5						0	
	6						1	
	7	Inhibited to use					0	
	8	Remote selection models	1: Both call-in and call-out		0: Call-in only	Call-in only	0	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 13	1	Recall times in busy	Binary input	Bit No.	1 2 3 4	2 times	0	When the value is outside the setting range, the initial value is set.
	2			Setting range	0 to 10 times		0	
	3						1	
	4						0	
	5	Recall interval in busy	Binary input	Bit No.	5 6 7 8	3 min	0	When the value is outside the setting range, the initial value is set.
	6			Setting range	1 to 15 min		0	
	7						1	
	8						1	
SW 14	1	Recall number in case of a transmission error	Binary input	Bit No.	1 2 3 4	1 times	0	When the value is outside the setting range, the initial value is set.
	2			Setting range	0 to 5 times		0	
	3						0	
	4						1	
	5	Recall interval in communication error	Binary input	Bit No.	5 6 7 8	1 min	0	When the value is outside the setting range, the initial value is set.
	6			Setting range	0 to 15 min		0	
	7						0	
	8				0: Recall immediately after cutting the line		1	
SW 15	1	Inhibited to use					0	
	2						0	
	3						0	
	4	Signal send level	Binary input	Bit No.	4 5 6 7 8	–8dBm	0	
	5			Setting range	0 (0dBm) to 26 (–26dBm)		1	
	6						0	
	7						0	
	8						0	
SW 16	1	Modem speed (V.33 mode or less)		Bit No.	1 2 3 4	V.17 14.4kbps	1	
				V.27 2400bps	0 0 0 0			
				V.29 9600bps	0 0 0 1			
	2			V.27 4800bps	0 0 1 0		0	
				V.29 7200bps	0 0 1 1			
				V.33 14.4kbps	0 1 0 0			
	3			V.33 12.0kbps	0 1 1 0		0	
				V.17 9600bps	1 0 0 1			
				V.17 12.0kbps	1 0 1 0			
	4			V.17 7200bps	1 0 1 1		0	
				V.17 14.4kbps	Other than the above			
	5	Modem speed in reception fixed		Bit No.	5 6	No fixing	0	
				No fixing	0 0			
				V.29-9600BPS	0 1			
	6			V.27ter-4800BPS	1 0		0	
				V.17-14400BPS	1 1			
	7	EOL detection timer	1: 25sec		0: 13sec	13sec	0	
	8	RTN EOL send times	1: 6 times		0: 12 times	6 times	1	
SW 17	1	Inhibited to use					0	
	2	MH fixed (except for SG3)	1: Yes		0: None (depending on the remote machine)	No	0	
	3	ECM MMR mode (except for SG3)	1: Yes		0: No	Yes	1	
	4	ECM JBIG mode (except for SG3)	1: Yes		0: No	Yes	1	
	5	Inhibited to use					0	
	6	MH fixed (SG3)	1: Yes		0: None (depending on the remote machine)	No	0	
	7	ECM MMR mode (SG3)	1: Yes		0: No	Yes	1	
	8	ECM JBIG mode (SG3)	1: Yes		0: No	Yes	1	
SW 18	1	Setup of number of times of call rings	Binary input	Bit No.	1 2 3 4	2 times	0	
	2			Setting range	0 to 9 times		0	
	3						1	
	4						0	
	5	Inhibited to use					0	
	6						0	
	7						0	
	8						0	

∗: UK = U.K., G = Germany, F = France

SW No.	Data No.	Items	SW selection and functions	Default value	∗ UK	∗ G	∗ F	Remarks
SW19	1	Minimum pause time (10PPS) setup	Binary input. Bit No. 1 2 3 4. Setting range 0 (525ms) to 15 (900ms). X (ms) = (N × 25) + 525	825ms	1	1	1	
	2				1	1	1	
	3				0	0	0	
	4				0	0	0	
	5	Inhibited to use			0	0	0	
	6				0	0	0	
	7				0	0	0	
	8				0	0	0	
SW20	1	Inhibited to use			0	0	0	
	2	PBX setup (Inhibited except for Germany and France.)	Bit No. 2 3 4. Setup OFF 0 0 0. Flash send 1 0 1. ID send 1 1 0	Setup OFF	0	0	0	When the value is outside the setting range, the initial value is set.
	3				0	0	0	
	4				0	0	0	
	5	SIM DTMF sound speaker selection window	1: Yes / 0: No	No	0	0	0	
	6	Flash send wait time	Bit No. 6 7. 0sec 0 0. 0.5sec 0 1. 1sec 1 0. 2sec 1 1	0sec (U.K., France) 1sec (Germany)	0	1	0	Fixed to 0 except for Germany.
	7				0	0	0	
	8	Receivable memory capacity	1: 64Kbyte / 0: 128Kbyte	128Kbyte	0	0	0	
SW21	1	Dial tone detection	1: Yes / 0: No	No	0	0	0	
	2	Busy tone detection	1: Yes / 0: No	Yes	1	1	1	
	3	Dial tone monitoring time	1: 10sec / 0: 5sec	5sec	0	0	0	
	4	CED detection time	1: 500ms / 0: 1000ms	1000ms	0	0	0	
	5	Inhibited to use			0	0	0	
	6				0	0	0	
	7				0	0	0	
	8				0	0	0	
SW22	1	Waiting time for dial start	Bit No. 1 2. 3.5sec 0 0. 4sec 0 1. 5sec 1 0. 6sec 1 1	3.5sec	0	0	0	
	2				0	0	0	
	3	CNG send start time	Bit No. 3 4. 0.5sec 0 0. 1.0sec 0 1. 1.5sec 1 0	0.5sec	0	0	0	
	4				0	0	0	
	5	Tone/pulse default setup	Bit No. 5 6. 10PPS 0 0. 20PPS 0 1. TONE 1 0	TONE	1	1	1	
	6				0	0	0	
	7	DPMUTE control	1: ON / 0: OFF	OFF	0	0	0	
	8	DP dial pulse number process	1: 10-N / 0: Normal (N)	Normal (N)	0	0	0	
SW23	1	Inhibited to use			0	0	0	
	2	Monitoring polarity reversion during send image	1: Yes / 0: No	No	0	0	0	Fixed to No.
	3	Monitoring polarity reversion during communication	1: Yes / 0: No	No	0	0	0	Fixed to No.
	4	Setting of time before dial (10PPS)	Binary input. Bit No. 4 5 6 7 8. Setting range 0 (50ms) to 31 (360ms). X (ms) = (N × 10) + 50	300ms	1	1	1	
	5				1	1	1	
	6				0	0	0	
	7				0	0	0	
	8				1	1	1	

*: UK = U.K., G = Germany, F = France

SW No.	Data No.	Items	SW selection and functions	Default value	* UK	* G	* F	Remarks
SW 24	1	Inhibited to use			0	0	0	
	2				0	0	0	
	3				0	0	0	
	4				0	0	0	
	5	Waiting time for OFF HOOK	Binary input Bit No. 5 6 7 8 Setting range 0 (50ms) to 15 (200ms) X (ms) = (N x 10) + 50	100ms	0	0	0	
	6				1	1	1	
	7				0	0	0	
	8				1	1	1	
SW 25	1	Make time (10PPS) setup	Binary input Bit No. 1 2 3 4 Setting range 26 to 41ms by increment of 1ms	34ms (U.K., France) 41ms (Germany)	1	1	1	
	2				0	1	0	
	3				0	1	0	
	4				0	1	0	
	5	Inhibited to use			0	0	0	
	6				0	0	0	
	7				0	0	0	
	8				0	0	0	
SW 26	1	DTMF signal send time	Binary input Bit No. 1 2 3 4 5 Setting range 6 (60ms) to 31 (310ms) X (ms) = (N × 10)	110ms	0	0	0	
	2				1	1	1	
	3				0	0	0	
	4				1	1	1	
	5				1	1	1	
	6	Minimum pause time (DTMF) setup	Binary input Bit No. 6 7 8 Setting range 0 (90ms) to 7 (160ms) X (ms) = (N × 10) + 90	120ms	0	0	0	
	7				1	1	1	
	8				1	1	1	
SW 27	1	Inhibited to use			0	0	0	
	2	Setting of time before dial (DTMF)	Binary input Bit No. 2 3 4 Setting range 0 (30ms) to 7 (100ms) X (ms) = (N × 10) + 30	50ms	0	0	0	
	3				1	1	1	
	4				0	0	0	
	5	Setting of DPMUTE OFF time after dial	Binary input Bit No. 5 6 7 8 Setting range 0 (5ms) to 15 (80ms) X (ms) = (N × 5) + 5	50ms	1	1	1	
	6				0	0	0	
	7				0	0	0	
	8				1	1	1	
SW 28	1	Pause time setup	Binary input Bit No. 1 2 3 4 Setting range 1 to 15sec	2sec	0	0	0	When the value is outside the setting range, the initial value is set.
	2				0	0	0	
	3				1	1	1	
	4				0	0	0	
	5	Flash send time	Bit No. 5 6 90ms 0 0 180ms 0 1 270ms 1 0 360ms 1 1	90ms	0	0	0	Fixed to 0 except for Germany and France.
	6				0	0	0	
	7	Line open delay time in dial test	Bit No. 7 8 2sec 0 0 3sec 0 1 4sec 1 0 5sec 1 1	2sec	0	0	0	
	8				0	0	0	
SW 29	1	Communication record table automatic print	1: Yes 0: No	No	0	0	0	
	2	Time specification of communication record table	1: Allowed 0: Inhibited	Inhibited	0	0	0	
	3	Sequence of year, month, and day on the LCD, the report, and the sender's record	Bit No. 3 4 Year, month, day 0 0 Month, day, year 0 1 Day, month, year 1 0 1 1	Day, month, year	1	1	1	When the value is outside the setting range, the initial value is set.
	4				0	0	0	
	5	Call time setup in automatic transmission (T0 timer setup)	Binary input Bit No. 5 6 7 8 Setting range 30 to 75sec by increment of 5sec	45sec	0	0	0	When the value is outside the setting range, the initial value is set. (Menu setting in the unit of 15sec)
	6				0	0	0	
	7				1	1	1	
	8				1	1	1	

∗: UK = U.K., G = Germany, F = France

SW No.	Data No.	Items	SW selection and functions	Default value	∗ UK	∗ G	∗ F	Remarks
SW30	1	Inhibited to use			0	0	0	
	2				0	0	0	
	3				0	0	0	
	4	Time specification print (o'clock) on the communication record table	Binary input Bit No. 4 5 6 7 8 Setting range 00 to 23 o'clock	0 o'clock	0	0	0	When the value is outside the setting range, the initial value is set.
	5				0	0	0	
	6				0	0	0	
	7				0	0	0	
	8				0	0	0	
SW31	1	Inhibited to use			0	0	0	
	2				0	0	0	
	3	Time specification print (minute) on the communication record table	Binary input Bit No. 3 4 5 6 7 8 Setting range 00 to 59 min	0 min	0	0	0	When the value is outside the setting range, the initial value is set.
	4				0	0	0	
	5				0	0	0	
	6				0	0	0	
	7				0	0	0	
	8				0	0	0	
SW32	1	Default telephone book setup	Bit No. 1 2 Basic screen 0 0 Destination list (50-character kana syllabary 0 1 Destination list (user) 1 0	Basic screen	0	0	0	
	2				0	0	0	
	3	Next address key input in broadcast	1: Yes / 0: No	No	0	0	0	
	4	One-touch dial display number switch	Bit No. 4 5 6 items 0 0 8 items 0 1 12 items 1 0	8 items	0	0	0	
	5				1	1	1	
	6	Shift of the power OFF state in shut off	1: Allowed / 0: Inhibited	Allowed	1	1	1	
	7	Time indication format	1: AM/PM / 0: 24H	24H	0	0	0	
	8	Priority in the day of week	1: Yes / 0: No	No (U.K.) Yes (Germany, France)	0	1	1	
SW33	1	Inhibited to use			0	0	0	
	2	Report output on less than A4 (LTR)	1: Reduction as A4 (LTR) images / 0: Reduction by the record volume	Reduction by the record volume	0	0	0	
	3	Own FAX No. mark of TX image (English only)	1: TEL icon ( ) / 0: "FAX:"	"FAX:"	0	0	0	
	4	Contents of send document are printed in memory send error	Bit No. 4 5 Not print 0 0 Print all 0 1 When transmission is failed 1 0	When transmission is failed	1	1	1	
	5				0	0	0	
	6	Transmission document content print in F code transmission	1: Not print / 0: Print	Not print	1	1	1	SW33-4 – 5 must be set to output.
	7	Function to attach images to the report table of memory confidential send	1: Yes / 0: No	No	0	0	0	
	8	Total communication time and total number of pages print on communication record table	1: Yes / 0: No	Yes	1	1	1	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 34	1	Report output (in reception)		Bit No.	1 2	Print is inhibited.	0	
				Print is inhibited.	0 0			
	2			Print all	0 1		0	
				Only in case of an error	1 0			
	3	Report output (in transmission)		Bit No.	3 4	Only when transmission is failed	1	
				Print is inhibited.	0 0			
	4			Print all	0 1		0	
				Only when transmission is failed	1 0			
	5	Communication report output (in confidential reception)	1: Print		0: Not print	Print	1	
	6	Report output (In broadcast, sequential send request, and relay broadcast)		Bit No.	6 7	Print all	0	
				Print is inhibited.	0 0			
	7			Print all	0 1		1	
				Only the address to which transmission is failed	1 0			
	8	Report output when canceling	1: Output		0: Not output	Not output	0	
SW 35	1	Automatic reduction print	1: Allowed		0: Inhibited	Allowed	1	
	2	Paper selection priority	1: Width priority		0: Area priority	Area priority	0	
	3	Output condition setup		Bit No.	3 4	Reduction allowed	0	When the value is outside the setting range, the initial value is set.
				Reduction allowed	0 0			
				AB	0 1			
	4			Division allowed	1 0		0	
				A	1 1			
	5	Automatic reduction rate setup	Binary input	Bit No.	5 6 7 8	6%	0	
	6			Setting range	0 to 15%		1	
	7						1	
	8						0	
SW 36	1	Waiting time for PC-FAX job end	Binary input	Bit No.	1 2 3 4	2 min	1	
	2			Setting range	0 (32min) to 15 (2 min)		1	
	3						1	
	4						1	
	5	Inhibited to use					0	
	6						0	
	7	Waiting time for lift-up		Bit No.	7 8	30sec	0	
				30sec	0 0			
	8			15sec	0 1		0	
				60sec	1 0			
				120sec	1 1			
SW 37	1	Thin paper setup	1: Allowed		0: Inhibited	Inhibited	0	
	2	Specification of 1m scan when there is no line send setting	1: Specification of 1m scan		0: Normal operation	Normal operation	0	
	3	Rotation send selection (A4 → A4R)	1: Yes		0: No	Yes	1	
	4	Rotation transmission selection (B5R → B5)	1: Yes		0: No	Yes	1	
	5	Rotation transmission selection (A5R → A5)	1: Yes		0: No	Yes	1	
	6	Rotation transmission selection (11 x 8.5 → 8.5 x 11)	1: Yes		0: No	Yes	1	
	7	Inhibited to use					1	
	8	Rotation scan word calculation	1: Round up		0: Round down	Round down	0	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 38	1	Protocol monitor	1: Yes		0: No	No	0	
	2	Output only in case of an error of the protocol monitor	1: Yes		0: No	No	0	
	3	Protocol monitor save	1: Save		0: Void	Save	1	
	4	Line sound monitor range		Bit No.	4 5	Until NSF signal is sent/received	0	When the value is outside the setting range, the initial value is set.
				OFF	0 0			
				Until NSF signal is sent/received	0 1			
	5			All	1 0		1	
					1 1			
	6	Line monitor display	1: Yes		0: No	No	0	
	7	Inhibited to use					0	
	8						0	
SW 39	1	Received document output setting in reception	1: Output collectively after completion of reception.		0: Output for every reception of 1 page	Output collectively after completion of reception.	1	
	2	Specification of data output in case of a communication error in reception	1: Not output		0: Output	Output	0	
	3	Memory over during reception	1: Output		0: Not output	Output	1	
	4	Output method in A3 width reception (AB series)	1: 297mm width		0: 11 inch width	297mm width	1	
	5	Output method in A4 width reception (AB series)	1: 8.5 inch width print		0: 210mm width print	210mm width print	0	
	6	Output method in A3 width reception (Inch series)	1: 297mm width		0: 11 inch width	11 inch width	0	
	7	Output method in A4 width reception (Inch series)	1: 8.5 inch width print		0: 210mm width print	8.5 inch width print	1	
	8	Relay data output	1: Yes		0: No	Yes	1	
SW 40	1	Rotation print	1: Allowed		0: Inhibited	Allowed	1	
	2	Override print setup	1: Override print		0: No override print	Override print	1	
	3	Page number print setup	1: Yes		0: No	Yes	1	
	4	Index print setup	1: Print		0: Not print	Not print	0	
	5	Duplex rotation print	1: Yes		0: No	Yes	1	
	6	Reception data duplex print	1: Yes		0: No	No	0	
	7	Specification of print sequence in duplex print	1: Print order (214365...)		0: Reception order (123456...)	Print order (214365...)	1	
	8	Specification of rotating direction duplex back surface print	1: 180° rotation		0: No 180° rotation	180° rotation	1	
SW 41	1	External telephone connection	1: Yes		0: No	Yes	1	
	2	Inhibited to use					0	
	3						0	
	4						0	
	5	Interval from completion of a transmission to the next call-out	Binary input	Bit No.	5 6 7 8	6sec	0	
	6			Setting range	0 to 15sec		1	
	7						1	
	8						0	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 42	1	Communication end buzzer sound length	Binary input	Bit No.	1 2 3	3.0sec	0	
	2			Setting range	1: 2.0sec 2: 2.5sec 3: 3.0sec 4: 3.5sec 5: 4.0sec		1	
	3						1	
	4	Transmission end sound tone		Bit No.	4 5	1000Hz	0	
				550Hz	0 0			
	5			1000Hz	0 1		1	
				1700Hz	1 0			
	6	Reception end sound tone		Bit No.	6 7	1000Hz	0	
				550Hz	0 0			
	7			1000Hz	0 1		1	
				1700Hz	1 0			
	8	V.34 mode function in manual communication	1: ON		0: OFF	ON	1	
SW 43	1	V.34 mode function	1: ON		0: OFF	ON	1	
	2	Super G3 disabled in the last call-out of recall in case of an error	1: Super G3 enabled		0: Super G3 disabled	Super G3 disabled	0	
	3	V.34 primary channel return mode	1: PPh		0: Sh	PPh	1	
	4	Symbol speed mask in V.34 reception		Bit No.	4 5 6	3429	1	
				2400	0 0 0			
	5			2743	0 0 1		0	
				2800	0 1 0			
	6			3000	0 1 1		1	
				3200	1 0 0			
				3429	1 0 1			
	7	V.34 control channel communication speed	1: 2400bps		0: 1200bps	1200bps	0	
	8	Control channel retrain judgment in V.34 reception	1: Ignore EQM value		0: Judge EQM value	Judge EQM value	0	
SW 44	1	V.34 primary channel transmission speed	Binary input	Bit No.	1 2 3 4	33600bps	1	
	2						1	
	3		Transmission speed = 2400 (bps) × N		However, N is 0 = 2400bps, 15 = 33600bps		1	
	4						0	
	5	V.34 primary channel reception speed	Binary input	Bit No.	5 6 7 8	33600bps	1	
	6						1	
	7		Transmission speed = 2400 (bps) × N		However, N is 0 = 2400bps, 15 = 33600bps		1	
	8						0	
SW 45	1	Speaker volume at scanner scan end		Bit No.	1 2	Middle	1	
				Silent	0 0			
	2			Small	0 1		0	
				Middle	1 0			
				Large	1 1			
	3	Pattern number of speaker volume at scan end	Binary input	Bit No.	3 4 5 6 7 8	21	0	
	4			Setting range	Pattern No.: 1 to 35		1	
	5						0	
	6						1	
	7						0	
	8						1	
SW 46	1	Speaker volume in DTMF send		Bit No.	1 2	Middle	1	
				Silent	0 0			
	2			Small	0 1		0	
				Middle	1 0			
				Large	1 1			
	3	Pattern number of speaker volume in DTMF send	Binary input	Bit No.	3 4 5 6 7 8	21	0	
	4			Setting range	Pattern No.: 1 to 35		1	
	5						0	
	6						1	
	7						0	
	8						1	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW47	1	Volume of line monitor from speaker		Bit No.	1 2	Silent	0	
				Silent	0 0			
				Small	0 1			
	2			Middle	1 0		0	
				Large	1 1			
	3	Pattern number of line monitor's volume	Binary input	Bit No.	3 4 5 6 7 8	21	0	
	4			Setting range	Pattern No.: 1 to 35		1	
	5						0	
	6						1	
	7						0	
	8						1	
SW48	1	Volume of communication end sound		Bit No.	1 2	Middle	1	
				Silent	0 0			
				Small	0 1			
	2			Middle	1 0		0	
				Large	1 1			
	3	Pattern number of communication end sound	Binary input	Bit No.	3 4 5 6 7 8	21	0	
	4			Setting range	Pattern No.: 1 to 35		1	
	5						0	
	6						1	
	7						0	
	8						1	
SW49	1	On-hook speaker volume		Bit No.	1 2	Middle	1	
				Middle	0 0			
				Small	0 1			
	2			Middle	1 0		0	
				Large	1 1			
	3	Pattern number of On-hook speaker volume	Binary input	Bit No.	3 4 5 6 7 8	21	0	
	4			Setting range	Pattern No.: 1 to 35		1	
	5						0	
	6						1	
	7						0	
	8						1	
SW50	1	Call sound volume		Bit No.	1 2	Middle	1	
				Silent	0 0			
				Small	0 1			
	2			Middle	1 0		0	
				Large	1 1			
	3	Pattern number of ringing speaker volume	Binary input	Bit No.	3 4 5 6 7 8	21	0	
	4			Setting range	Pattern No.: 1 to 35		1	
	5						0	
	6						1	
	7						0	
	8						1	
SW51	1	Busy tone detection cycle		Bit No.	1 2	2puls	0	
				2puls	0 0			
				4puls	0 1			
	2			6puls	1 0		0	
				10puls	1 1			
	3	Busy tone detection time (Upper limit)	1: 650ms		0: 750ms	750ms	0	
	4	Busy tone detection time (Lower limit)	1: 350ms		0: 250ms	250ms	0	
	5	Busy tone detection time (Lower limit 2)	1: 150ms		0: Follows SW51-4.	Follows SW51-4.	0	
	6	Inhibited to use					1	
	7						0	
	8	SDT signal detection	1: Yes		0: No	No	0	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 52	1	DT/BT detection frequency range		Bit No.	1 2	420Hz–680Hz	0	
				Modem fixed (400Hz)	0 0			
				420Hz–680HzHz	0 1			
	2			360Hz–440HzHz	1 0		1	
				245Hz–650Hz	1 1			
	3	Busy tone detection level table	1: variable (SRAM)		0: constant (ROM)	constant (ROM)	0	
	4	Busy tone detection level		Bit No.	4 5	–43dB	0	
				–43dB	0 0			
				–35dB	0 1			
	5			–33dB	1 0		0	
				–30dB	1 1			
	6	Inhibited to use					0	
	7						0	
	8						0	
SW 53	1	Inhibited to use					0	
	2						1	
	3						1	
	4						0	
	5						0	
	6						1	
	7						0	
	8						1	
SW 54	1	Inhibited to use					0	
	2						0	
	3						1	
	4						0	
	5						1	
	6						1	
	7						0	
	8						0	
SW 55	1	Inhibited to use					0	
	2						0	
	3						0	
	4						1	
	5						0	
	6						0	
	7						0	
	8						0	
SW 56	1	Inhibited to use					0	
	2						0	
	3						0	
	4						0	
	5						0	
	6						0	
	7						1	
	8						0	
SW 57	1	Inhibited to use					0	
	2						0	
	3						0	
	4						0	
	5						0	
	6						0	
	7						0	
	8						0	

SW No.	Data No.	Items	SW selection and functions	Default value		Remarks
SW 58	1	Inhibited to use			0	
	2				0	
	3	External connection sound volume	Binary input Bit No. 3 4 5 6 7 8 Setting range 0 (0.0dBm) to 48 (–24.0dBm) Step 0.5dBm 49 (–28.0dBm) 50 (–32.0dBm) 51 (–36.0dBm) 52 (–40.0dBm) 53 (–48.0dBm) 54 (–56.0dBm) 55 (–63.0dBm) 56 (– ∞ infinite (mute))	–10.0dBm	0	
	4				1	
	5				0	
	6				1	
	7				0	
	8				0	
SW 59	1	Signal send level Max.	Binary input Bit No. 1 2 3 4 Setting range 0 (0dBm) to 15 (–15dBm)	–6dBm	0	
	2				1	
	3				1	
	4				0	
	5	Transmission cable amplitude equalizer	Bit No. 5 6 0dB 0 0 4dB 0 1 8dB 1 0 12dB 1 1	0dB	0	
	6				0	
	7	Reception cable amplitude equalizer	Bit No. 7 8 0dB 0 0 4dB 0 1 8dB 1 0 12dB 1 1	0dB	0	
	8				0	
SW 60	1	Reception SED ON level	Bit No. 1 2 –43dB 0 0 –38dB 0 1 –33dB 1 0 –48dB 1 1	–48dB	1	
	2				1	
	3	Inhibited to use			0	
	4	Reception gain adjustment	Binary input Bit No. 4 5 6 7 8 Setting range 0 (+6.0dBm) to 24 (–6.0dBm) Step 0.5dBm	0.0dBm	0	
	5				1	
	6				1	
	7				0	
	8				0	
SW 61	1	Inhibited to use			1	
	2				0	
	3				0	
	4				1	
	5				1	
	6				1	
	7				1	
	8				0	
SW 62	1	Inhibited to use			0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
SW 63	1	Inhibited to use			1	
	2				1	
	3				1	
	4				0	
	5				0	
	6				0	
	7				1	
	8				0	

SW No.	Data No.	Items	SW selection and functions		Default value		Remarks
SW 64	1	Inhibited to use				1	
	2					0	
	3					1	
	4	DTMF send level (high level)	Binary input Bit No.	4 5 6 7 8	–6dBm	0	
	5		Setting range	0 (0.0dBm) to 21 (–21.0dBm)		0	
	6					1	
	7					1	
	8					0	
SW 65	1	Maximum DTMF send level	Binary input Bit No.	1 2 3 4	0dBm	0	
	2		Setting range	0 (0.0dBm) to 15 (–15.0dBm)		0	
	3					0	
	4					0	
	5	DTMF send level (difference between high and low level)	Binary input Bit No.	5 6 7 8	+2.0dBm	1	
	6		Setting range	0 (–2.0dBm) to 15 (+5.5dBm) Step 0.5dBm		0	
	7					0	
	8					0	
SW 66	1	Default date, sender print	1: ON	0: OFF	ON	1	
	2	Department number notification	1: ON	0: OFF	OFF	0	
	3	Date and sender print position setup	1: Inside document	0: Outside document	Outside document	0	
	4	Inhibited to use				0	
	5					0	
	6	Polarity reversion settlement time	Binary input Bit No.	6 7 8	200ms	0	
	7		Setting range	200 to 1600ms		0	
	8					0	
SW 67	1	After sending CFR, double wait is inhibited for 1.6sec.	Binary input Bit No.	1 2 3 4	1600ms	1	
	2		Setting range	0 to 3000ms		0	
	3					0	
	4					0	
	5	Measurement of communication time (image)	1: Yes	0: No	Yes	1	
	6	Reduction transmission mode	1: Normal	0: Reduction	Reduction	0	
	7	ECM	1: Yes	0: No	Yes	1	
	8	ECM byte/frame	1: 64 [bytes/frame]	0: 256 [bytes/frame]	256 [bytes/frame]	0	
SW 68	1	Recording paper tray selection (Tray 1)	1: ON	0: OFF	ON	1	
	2	Recording paper tray selection (Tray 2)	1: ON	0: OFF	ON	1	
	3	Recording paper tray selection (Tray 3)	1: ON	0: OFF	ON	1	
	4	Recording paper tray selection (Tray 4)	1: ON	0: OFF	ON	1	
	5	The tray specification of Duplex print (Tray 1)	1: ON	0: OFF	ON	1	
	6	The tray specification of Duplex print (Tray 2)	1: ON	0: OFF	ON	1	
	7	The tray specification of Duplex print (Tray 3)	1: ON	0: OFF	ON	1	
	8	The tray specification of Duplex print (Tray 4)	1: ON	0: OFF	ON	1	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 69	1	Reception size specification (Reception capacity)		Bit No.	1 2	By the equipped cassette	0	
				By the equipped cassette	0 0			
	2			B4 (A4, B4)	0 1		0	
				A4	1 0			
				A3 (A4, B4, A3)	1 1			
	3	11 inch reception capacity setup	1: 255mm or 215mm		0: 303mm, 255mm or 215mm	303mm, 255mm or 215mm	0	
	4	Maximum reception length	1: Unlimited		0: 1.5m	1.5m	0	
	5	Image quality in transmission request		Bit No.	5 6	Ultra fine	0	
				Ultra fine	0 0			
				Super fine	0 1			
	6			Fine	1 0		0	
				Standard	1 1			
	7	Countermeasures for echo in reception (CED tone send interval)	1: 500ms		0: 75ms	75ms	0	
	8	Countermeasure for echo in transmission (After reception of DIS, hold time up to signal send is set.)	1: 500ms		0: 200ms	200ms	0	
SW 70	1	CED signal send	1: Yes		0: No	Yes	1	
	2	CSI transmission	1: Yes		0: No	Yes	1	
	3	DIS reception check in G3 send	1: 2 times		0: 1 time	1 time	0	Functions only when other than SG3.
	4	DIS process selection in reception	Bit No.		4 5	Judged as reception of an echo and the command is sent again.	0	
			Judged as reception of an echo and the command is sent again.		0 0			
			Disconnects the line as an illegal DIS		0 1			
	5		When DIS judges that the receiver has poled documents, poled transmission and the other are judged as reception of an echo and the command is sent again.		1 0		0	
			When DIS judges that the receiver has poled documents, poled transmission is made. When DIS judges that the transmitter received an echo, the command is sent again. In the other case, it is judged as improper DIS and the line is disconnected.		1 1			
	6	DIS 41Bit or later enable/ disable	1: Void		0: Valid	Valid	0	
	7	Time between DCS and TCF	1: 75ms		0: 150ms	75ms	1	
	8	TCF check time	1: 1.0sec		0: 1.3sec	1.0sec	1	
SW 71	1	Inhibited to use					0	
	2						0	
	3						0	
	4	Telephone line menu	1: Inhibited		0: Allowed	Inhibited	1	
	5	Inhibited to use					0	
	6						0	
	7						1	
	8						0	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 72	1	RCP send times		Bit No.	1 2	3 times	0	
				3 times	0 0			
				6 times	0 1			
	2			9 times	1 0		0	
				12 times	1 1			
	3	The number of the flag detection bytes	Binary input	Bit No.	3 4 5 6	4	0	
	4			Setting range	0 to 15 times		1	
	5						0	
	6						0	
	7	EYE-Q check	1: EYE-Q check only		0: 0 reception & EYE-Q check	0 reception & EYE-Q check	0	
	8	Operation when error frame is received.	1: Continues process.		0: Process is not continued. (Judged as an error.)	Process is not continued. (Judged as an error.)	0	
SW 73	1	Error process in RTN reception	1: Not error		0: Error	Error	0	
	2	RTN send line error rate		Bit No.	2 3	60 lines	1	
				6 lines	0 0			
				12 lines	0 1			
	3			60 lines	1 0		0	
				120 lines	1 1			
	4	Flag-address timer setup (V.21-FSK)		Bit No.	4 5	6sec	0	
				6sec	0 0			
				15sec	0 1			
	5			30sec	1 0		0	
				120sec	1 1			
	6	Reception waiting time between frames	1: 4.4sec		0: 3.4sec	3.4sec	0	
	7	Minimum flags between frames		Bit No.	7 8	2-flag	0	
				2-flag	0 0			
				3-flag	0 1			
	8			4-flag	1 0		0	
				5-flag	1 1			
SW 74	1	FSK signal settlement time in double wait	Binary input	Bit No.	1 2 3 4	400ms	0	
	2			Setting range	Settlement time = 50 (ms) x N + 200 (ms)		1	
	3						0	
	4						0	
	5	Preamble send time of 300bps		Bit No.	5 6	1.0sec	0	
				0.5sec	0 0			
				1.0sec	0 1			
	6			1.5sec	1 0		1	
				2.0sec	1 1			
	7	Phase C head dummy data send time		Bit No.	7 8	0.2sec	0	
				0.2sec	0 0			
				0.3sec	0 1			
	8			0.4sec	1 0		0	
				0.5sec	1 1			

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW 75	1	Waiting time for CED send start		Bit No.	1 2	2.25sec	0	
				2.25sec	0 0			
	2			3sec	0 1		0	
				4sec	1 0			
	3	CED signal send time		Bit No.	3 4	3sec	0	
				3sec	0 0			
	4			4sec	0 1		0	
				5sec	1 0			
				6sec	1 1			
	5	Waiting time for ANSam send start		Bit No.	5 6	2.25sec	0	
				2.25sec	0 0			
	6			3sec	0 1		0	
				4sec	1 0			
	7	ANSam signal send time		Bit No.	7 8	4sec	0	
				3sec	0 0			
				4sec	0 1			
	8			5sec	1 0		1	
				6sec	1 1			
SW 76	1	Inhibited to use					1	
	2						0	
	3						0	
	4						0	
	5						1	
	6						1	
	7						0	
	8						1	
SW 77	1	Inhibited to use					0	
	2						0	
	3						0	
	4						0	
	5						1	
	6						0	
	7						1	
	8						0	
SW 78	1	Inhibited to use					0	
	2						1	
	3						0	
	4						1	
	5						1	
	6						0	
	7						0	
	8						0	
SW 79	1	Inhibited to use					0	
	2						1	
	3						0	
	4						1	
	5						1	
	6						0	
	7						0	
	8						0	
SW 80	1	Inhibited to use					0	
	2						1	
	3						0	
	4						1	
	5						1	
	6						0	
	7						0	
	8						0	

SW No.	Data No.	Items	SW selection and functions			Default value		Remarks
SW81	1	Inhibited to use					0	
	2						1	
	3						0	
	4						1	
	5						1	
	6						0	
	7						0	
	8						0	
SW82	1	CI signal ON time in V.8 mode	1: 18byte		0: 9bytes	9byte	0	
	2	CI signal OFF time in V.8 mode	1: 2sec		0: 1sec	1sec	0	
	3	Inhibited to use					0	
	4	CI receive number to shift to non-V.34 communication		Bit No.	4 5	2 times	1	
				Does not shift.	0 0			
				1 times	0 1			
	5			2 times	1 0		0	
				3 times	1 1			
	6	CI send number to shift to Non-V.34 communication	Binary input	Bit No.	6 7 8	2	0	
	7			Setting range	0 to 7 times		1	
	8				When N=0, retrain is not made.		0	
SW83	1	Inhibited to use					0	
	2						0	
	3						1	
	4						1	
	5						1	
	6						1	
	7						1	
	8						1	
SW84	1	Inhibited to use					1	
	2						1	
	3						1	
	4						1	
	5						1	
	6						1	
	7						1	
	8						1	
SW85	1	Inhibited to use					1	
	2						1	
	3						1	
	4						1	
	5						1	
	6						1	
	7						1	
	8						1	
SW86	1	Inhibited to use					0	
	2	CI detection		Bit No.	2 3	4 sine wave	0	When the value is outside the setting range, the initial value is set.
				4 sine wave	0 0			
				3 sine wave	1 0			
	3			2 sine wave	0 1		0	
					1 1			
	4	CI delete max. OFF time		Bit No.	4 5	10sec	0	
				5sec	0 0			
				10sec	0 1			
	5			15sec	1 0		1	
				20sec	1 1			
	6	CI signal ON detection enable time	Binary input	Bit No.	6 7 8	155ms	0	PWB for Australia only can be changed.
	7			Setting range	0 (155ms) to 7 (225ms) by increment of 10ms		0	
	8						0	

SW No.	Data No.	Items	SW selection and functions	Default value		Remarks
SW87	1	CI signal OFF detectable time	Binary input Bit No. 1 2 3 4 5 6 7 Setting range 0 to 1270ms by increment of 10ms	1200ms	1	
	2				1	
	3				1	
	4				1	
	5				0	
	6				0	
	7				0	
	8	Inhibited to use			0	
SW88	1	Inhibited to use			0	
	2				1	
	3				0	
	4				0	
	5				0	
	6				1	
	7				1	
	8				0	
SW89	1	Inhibited to use			1	
	2				1	
	3				0	
	4				1	
	5				1	
	6				0	
	7				0	
	8				0	
SW90	1	Inhibited to use			0	
	2				1	
	3				1	
	4				1	
	5				1	
	6				1	
	7				1	
	8				1	
SW91	1	Inhibited to use			0	
	2				1	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
SW92	1	Inhibited to use			0	
	2				1	
	3				0	
	4				1	
	5				1	
	6				0	
	7				0	
	8				0	
SW93	1	Inhibited to use			1	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				1	
	8				0	

SW No.	Data No.	Items	SW selection and functions	Default value		Remarks
SW 94	1	Inhibited to use			0	
	2				0	
	3				1	
	4				0	
	5				1	
	6				1	
	7				0	
	8				1	
SW 95	1	Inhibited to use			0	
	2				1	
	3				0	
	4				1	
	5	T1 timer setup	Binary input Bit No. 5 6 7 8 Setting range 15 to 90sec by increment of 5sec	40sec	0	
	6				1	
	7				0	
	8				1	
SW 96	1	Inhibited to use			0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
SW 97	1	Inhibited to use			0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
SW 98	1	Inhibited to use			0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
SW 99	1	Inhibited to use			0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				0	
	7				0	
	8				0	
SW 100	1	Inhibited to use			0	
	2				0	
	3				0	
	4				0	
	5				0	
	6				1	
	7				0	
	8				0	

SW No.	Data No.	Items	SW selection and functions	Default value	Remarks
SW101	1	Inhibited to use		0	
	2			0	
	3			1	
	4			1	
	5			1	
	6			1	
	7			0	
	8			0	
SW102	1	Inhibited to use		0	
	2			0	
	3			1	
	4			0	
	5			1	
	6			1	
	7			0	
	8			1	
SW103	1	Inhibited to use		0	
	2			1	
	3			1	
	4			0	
	5			1	
	6			1	
	7			0	
	8			1	
SW104	1	Inhibited to use		0	
	2			0	
	3			0	
	4			0	
	5			0	
	6			0	
	7			0	
	8			0	
SW105	1	Inhibited to use		0	
	2			0	
	3			0	
	4			0	
	5			0	
	6			0	
	7			0	
	8			0	
SW106	1	Inhibited to use		1	
	2			0	
	3			1	
	4			0	
	5			1	
	6			1	
	7			0	
	8			1	
SW107	1	Inhibited to use		0	
	2			0	
	3			1	
	4			0	
	5			0	
	6			0	
	7			0	
	8			0	

SW No.	Data No.	Items	SW selection and functions		Default value		Remarks
SW 108	1	Inhibited to use				0	
	2					0	
	3					0	
	4					0	
	5					0	
	6					1	
	7					0	
	8					1	
SW 109	1	Print lead edge adjustment (Left edge adjustment)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±112 dots in the interval of 16 dots		48 dots	0	
	3					1	
	4					1	
	5	Print lead edge adjustment (Lead edge adjustment)	1: –	0: +	+	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±112 lines in the interval of 16 lines		48 lines	0	
	7					1	
	8					1	
SW 110	1	Print lead edge adjustment (Rear edge adjustment)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±112 lines in the interval of 16 lines		48 lines	0	
	3					1	
	4					1	
	5	Print lead edge adjustment (left edge position) rear	1: –	0: +	+	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±112 dots in the interval of 16 dots		48 dots	0	
	7					1	
	8					1	
SW 111	1	Print lead edge adjustment (lead edge position) rear	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±112 lines in the interval of 16 lines		48 lines	0	
	3					1	
	4					1	
	5	Print lead edge adjustment (rear edge position) rear	1: –	0: +	+	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±112 lines in the interval of 16 lines		48 lines	0	
	7					1	
	8					1	
SW 112	1	Print magnification ratio adjustment (horizontal)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 113	1	Print magnification radio adjustment (vertical)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 114	1	Scan effective image area (OC) vertical lead edge image loss	1: –	0: +	+0 lines	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±56 lines in the interval of 8 lines			0	
	3					0	
	4					0	
	5	Vertical rear edge image loss in scan effective image area (OC)	1: –	0: +	+0 lines	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±56 lines in the interval of 8 lines			0	
	7					0	
	8					0	

SW No.	Data No.	Items	SW selection and functions		Default value		Remarks
SW 115	1	Scan effective image area (OC) horizontal left edge image loss	1: –	0: +	+0 dots	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±56 dots in the interval of 8 dots			0	
	3					0	
	4					0	
	5	Scan effective image area (OC) horizontal right edge image loss	1: –	0: +	+0 dots	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±56 dots in the interval of 8 dots			0	
	7					0	
	8					0	
SW 116	1	Scan magnification adjustment OC (horizontal)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 117	1	Scan magnification ratio adjustment OC (vertical)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 118	1	Scan effective image area (SPF) vertical lead edge image loss	1: –	0: +	+0 lines	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±56 lines in the interval of 8 lines			0	
	3					0	
	4					0	
	5	Vertical rear edge image loss in scan effective image area (SPF)	1: –	0: +	+0 lines	0	Since the rear edge of the SPF cannot be specified with coordinates, it is pulled after scanning, Since the set value is not a coordinate value, its unit differs from that of the other set values. The value cannot be increased over the coordinates specified in scanning.
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±14 lines in the interval of 2 lines			0	
	7					0	
	8					0	
SW 119	1	Scan effective image area (SPF) horizontal left edge image loss	1: –	0: +	+0 dots	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±56 dots in the interval of 8 dots			0	
	3					0	
	4					0	
	5	Scan effective image area (SPF) horizontal right edge image loss	1: –	0: +	+0 dots	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±56 dots in the interval of 8 dots			0	
	7					0	
	8					0	

SW No.	Data No.	Items	SW selection and functions		Default value		Remarks
SW 120	1	Scan effective image area (SPF) rear vertial lead edge image loss	1: –	0: +	+0 lines	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±56 lines in the interval of 8 lines			0	
	3					0	
	4					0	
	5	Scan effective image area (SPF) rear vertical rear edge image loss	1: –	0: +	+0 lines	0	Since the rear edge of the SPF cannot be specified with coordinates, it is pulled after scanning, Since the set value is not a coordinate value, its unit differs from that of the other set values. The value cannot be increased over the coordinates specified in scanning.
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±14 lines in the interval of 2 lines			0	
	7					0	
	8					0	
SW 121	1	Scan effective image area (SPF) rear horizontal left edge image loss	1: –	0: +	+0 dots	0	
	2		Binary input Bit No. 2 3 4 Setting range 0 to ±56 dots in the interval of 8 dots			0	
	3					0	
	4					0	
	5	Scan effective image area (SPF) rear horizontal right edge image loss	1: –	0: +	+0 dots	0	
	6		Binary input Bit No. 6 7 8 Setting range 0 to ±56 dots in the interval of 8 dots			0	
	7					0	
	8					0	
SW 122	1	Scan magnification ratio adjustment SPF (horizontal)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 123	1	Scan magnification ratio adjustment SPF (vertical)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 124	1	Print magnification ratio adjustment rear (horizontal)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	
SW 125	1	Print magnification ratio adjustment rear (vertical)	1: –	0: +	+	0	
	2		Binary input Bit No. 2 3 4 5 6 7 8 Setting range 0 to ±12.7% by increment of 0.1%		0%	0	
	3					0	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	

SW No.	Data No.	Items	SW selection and functions		Default value		Remarks
SW 126	1	Scan magnification ratio adjustment SPF rear (horizontal)	1: –	0: +	+	0	
	2		Binary input			0	
	3		Bit No.	2 3 4 5 6 7 8		0	
	4		Setting range	0 to ±12.7% by increment of 0.1%		0	
	5				0%	0	
	6					0	
	7					0	
	8					0	
SW 127	1	Scan magnification ratio adjustment SPF rear (vertical)	1: –	0: +	+	0	
	2		Binary input			0	
	3		Bit No.	2 3 4 5 6 7 8		0	
	4		Setting range	0 to ±12.7% by increment of 0.1%		0	
	5				0%	0	
	6					0	
	7					0	
	8					0	
SW 128	1	Inhibited to use				0	
	2					0	
	3					0	
	4					1	
	5					1	
	6					0	
	7					1	
	8					0	
SW 129	1	Inhibited to use				0	
	2					0	
	3					1	
	4					0	
	5					0	
	6					0	
	7					1	
	8					0	
SW 130	1	Inhibited to use				0	
	2					0	
	3					1	
	4					0	
	5					1	
	6					0	
	7					1	
	8					0	
SW 131	1	Inhibited to use				0	
	2					0	
	3					0	
	4					1	
	5					0	
	6					0	
	7					0	
	8					0	
SW 132	1	Inhibited to use				0	
	2					0	
	3					1	
	4					0	
	5					0	
	6					0	
	7					0	
	8					0	

SW No.	Data No.	Items	SW selection and functions	Default value		Remarks
SW 133	1	Inhibited to use			0	
	2				0	
	3				1	
	4				1	
	5				0	
	6				0	
	7				0	
	8				0	

3. Soft switch descriptions

SW1 No.1–No.8 Country information

Destination setup

SW2 No.1, No.2 SIM language information

SIM language selection

SW2 No.3–No.8 Language information

Language selection

SW3 No. 1 Sharp machine mode

Sharp machine mode setup

Default: 1 (ON)

SW3 No. 2 Sharp machine mode (F code)

Sharp machine mode (F code) setup

Default: 0 (OFF)

SW3 No. 3 FAST mode

Used to set Enable/Disable of FAST operation. (SEC only)

This SW must be set to enable FAST operation by the serviceman.

Default: 0 (NO)

SW3 No. 4 Center number in FAST

Center number setup in FAST

Default: 0 (Service-No.)

SW3 No.5–No.7 Maintenance cycle

Setup for judgment of consumable parts notification when using the F.A.S.T. function.

This setup should be the same as SIM21-1 setup.

Default: 0 0 1 (75K)

SW3 No. 8 Maintenance system

Setting of the machine model for judgment of consumable parts system in the FAST function

Default: 0 (AR)

SW4 No.1–No.8 Inhibited to use.

SW5 No. 1 Initialization control inside program

Used to set whether the all soft switches are initialized or not.

When set to 1, the initialization is made.

When set to 0, No initialization is made.

Default: 0 (nothing is made)

SW5 No. 2 For FAX debug

Used to set ON/OFF of FAX debug mode.

When set to 1, debug mode is ON.

When set to 0, debug mode is OFF.

Default: 0 (Debug mode OFF)

SW5 No. 3 Flash memory check measuring range

Operation check usually can be done by 256-byte check. Setting to 1 will check all areas of the flash memory. Note that it takes about 20 min.

Default: 0 (256 bytes)

SW5 No. 4 ICU UART1 output

Used to set whether ICU UART 1 output is made or not.

Default: 1 (Output is not made)

SW5 No.5–No.8 24V reset wait time

Used to set the 24V reset wait time.

The set range is 0 to 750 by binary input.

Default: 500ms

SW6 No. 1 Auto/Manual default setup

Used to select Auto/Manual reception mode when turning on the power. (When no external telephone is connected, do not select Manual. However, setup is possible and reception can be made by on-hook.)

When set to 1, manual reception.

When set to 0, auto reception.

Default: 0 (Auto reception)

SW6 No. 2 Inhibited to use.

SW6 No.3, No.4 Size specification

Used to set inch series or AB series for recording paper when printing received documents.

Normally there is no need to change from “Follow the machine information.”

Default: 0 1 (follows the machine information)

SW6 No. 5 Inhibited to use.

SW6 No. 6 Memory transmission/direction transmission default setup

Used to select Memory/Direction transmission when the power is turned on and the time out is cleared.

When set to 1, direct transmission is selected when the power is turned on and the time out is cleared.

When set to 0, memory transmission is selected when the power is turned on and the time out is cleared.

Default: 0 (Memory transmission)

SW6 No. 7 Quick memory transmission

Used to set whether quick memory transmission (transmission of ringing before completion of scanning) is performed or not. Linked with the key operator program menu.

Default: 1 (Allowed)

SW6 No. 8 Remote reception instruction

Used to set whether the remove switching function is allowed or not.

When set to 1, the function is allowed.

When set to 0, the function is not allowed.

Default: 1 (Allowed)

SW7 No.1–No.8 Remote selection number setup

Used to set the number by binary input for remote switch reception from an external telephone. "**" in a remote switch number (X**) is fixed.

When 10 or greater value is entered, the operations will be the same as setup of 5.

Default: 5

SW8 No.1–No.3 Image quality priority selection

Used to set the initial value of image selection when scanning a document.

When set to 1 0 0, the same operation as standard mode.

Default: 0 0 0 (standard)

SW8 No.4–No.8 Density default setup

Used to set the default density setup of the operation panel.

Default: 0 0 0 0 0 (automatic)

SW9 No. 1 Inhibited to use.

SW9 No. 2 Transfer function

Used to set whether transfer function is allowed or not.

Default: 1 (allowed)

SW9 No. 3 Relay broadcast function

Used to set whether the interface broadcasting command is received from the other party to perform interface broadcasting or the interface broadcasting command is not received from the other party.

When set to 1, the relay broadcast instruction from the allowed party is received.

When set to 0, the relay broadcast instruction even from the allowed party is not received.

Default: 1 (The relay broadcast instruction is received.)

Though this function is set to disable, the interface broadcasting command can be sent.

SW9 No. 4 – No.5 Inhibited to use.

SW9 No. 6 Cover function default setup

Used to set whether the cover is added or not in transmission.

When set to 1, the cover is added.

When set to 0, the cover is not added.

Default: 0 (The cover is not added.)

SW9 No. 7 Specified number reception

Used to set ON//OFF the function to reject the fax reception from the specified numbers.

Default: 0 (Ignore specified number reception)

SW9 No. 8 Specified number reception in manual reception

Used to set whether reception from manual reception is rejected or not when reception function by specifying the number is ON.

Default: 1 (Reject specified number reception)

SW10 No. 1 F-code relay broadcast function

Used to set whether F code relay broadcast instruction from the other party is received and relay broadcast transmission is performed or F code relay broadcast instruction is not received (though the relay box number by SUB coincides with) from the other party.

Though this function is set to disable, F code instruction can be transmitted.

Default: 0 (Allowed)

SW10 No. 2 F-code confidential reception

Used to set whether F-code confidential instruction is received or not (though the confidential box number by SUB coincides with) from the other party.

Though this function is set to disable, F code transmission can be made.

Default: 0 (Allowed)

SW10 No. 3 Yes/No of SUB capacity in reception

Used to set notification of YES/NO of DIS signal Bit 49 SUB capacity.

"1": No

"0": Yes

Default: 0 (YES)

If set to “1” (NO), the F code transmission from the other party can be inhibited.

SW10 No. 4 Yes/No of SEP capacity in reception

Used to set notification of YES/NO of DIS signal Bit 47 SEP capacity.

"1": Inhibited

"0": Allowed

Default: 0 (allowed)

When set to 1 (NO), F code polling is inhibited.

SW10 No. 5 Yes/No of reception PWD capacity

Used to set whether password function is judged or not for F code bulletin board polling.

"1": Password is not judged. Password is disregarded and communication is allowed.

"0": Password is judged. If password is not acceptable, communication is cut off.

Default: 0 (Password is judged.)

SW10 No. 6 Yes/No of SID capacity in reception

Used to set whether password is judged or nor in F code reception.

"1": Password is not judged. Password is disregarded and communication is allowed.

"0": Password is judged. If password is not acceptable, communication is cut off.

Default: 0 (Password is judged.)

SW10 No. 7 Judgment of the system number of bulletin board transmission

Used to set whether the condition of coincidence between the system number of this machine and that of the other party machine is employed as a criterion to judge whether to allow bulletin transmission by receiving polling transmission from the other party machine made by our company.

"1": When the system number of the other party machine made by our company coincide with the system number of this machine, polling is allowed.

"0": Though the system number of the other party machine made by our company coincide with the system number of this machine, polling is inhibited.

Default: 0 (Inhibited)

SW10 No. 8 Send request protection

Used to set YES/NO of the confidential protection function (inhibition of transmission to an erroneous party). Confidential protection is performed by collating the number registered in this machine and that in the other party's machine. (Sender's telephone number ↔ Send request allow number, System number ↔ ID number)

When set to 1, protection is not made.

When set to 0, protection is made.

Default: 0 (Protection)

SW11 No. 1, No. 2 Inhibited to use.

SW11 No. 3 Sender's telephone number registration

Used to set whether the registered sender's TEL No. can be changed or not.

When set to 1, sender's TEL No. cannot be registered and changed. To prevent sender's TEL No. from being changed erroneously, this is set to 1.

Default: 0 (Enabled)

SW11 No. 4 Yes/No of manual send selection menu display

Used to set whether the manual transmission selection screen is displayed or not.

Default: 1 (displayed)

SW11 No.5–No.8 Inhibited to use.

SW12 No. 1 Direct send recall Allow/Inhibit

Used to set Allow/Inhibit of direct send recall.

Default: 0 (Inhibited)

SW12 No.2 Manual/Auto reception auto swiching (Inhibited except for France.)

Used to set whether automatic reception is made or not when ringing is made the number of auto switch call times in manual reception.

Default: 0 (Inhibited)

SW12 No.3–No.6 Number of auto switch calls of manual reception → auto reception (Inhibited except for France.)

When the above setup is allowed, automatic reception is made at the set number of times.

The set range is 1 to 9 times.

Default: 9 times

SW12 No.7 Inhibited to use.

SW12 No.8 Remote selection models

Used to set remote selection models.

Default: 0 (Call-in only)

SW13 No.1–No.4 Recall times in busy

Used to set the number of recall times in case of busy state of the other party or when call does not reach the other party.

Setup is made in the range of 0 – 10 times by binary input.

When set to 0, recall is not made.

Default: 2 times of recall

SW13 No.5–No.8 Recall interval in busy

Used to set recall interval after disconnection due to the busy state of the other party or no response.

The set range is 1 to 15 min in the increment of 1 min by binary input.

When set to 0, it is the same as setup of 3 min.

Default: 3 min

SW14 No.1–No.4 Recall number in case of a transmission error

Used to set the number of recall times in case of a communication error.

Setup is made in the range of 0 – 5 times by binary input.

When set to 0, recall is not made.

Default: 1 time of recall

SW14 No.5–No.8 Recall interval in communication error

Used to set recall interval after disconnection of communication due to a communication error in memory transmission.

The set range is 0 to 15 min in the increment of 1 min by binary input.

When set to 0, recall is made immediately after disconnection.

However, the time interval set by SW41-5–8 (Interval between the end of a communication and the next call) is taken.

Default: 1 min

SW15 No. 1 – No.3 Inhibited to use.

SW15 No.4–No.8 Signal send level

Used to set the attenuation quantity of signal send level from the modem.

0 (0dBm) to 26 (–26dBm)

Default: –8dBm

SW16 No.1–No.4 Modem speed (V.33 mode or less)

Used to set the speed to start communication. When communication troubles occur frequently, the speed may be reduced to solve the troubles.

Default: 1 0 0 0 (V.17 14.4kbps)

SW16 No.5, No.6 Modem speed in reception fixed

Used to set the start speed of reception procedure when receiving from the other party other than V.34.

bit	5	6	
	0	0	: No fixing
	0	1	: V.29-9600BPS
	1	0	: V.27ter-4800BPS
	1	1	: V.17-14400BPS

When set to "no fixing," the operations are the same as V.17-14400BPS.

The above four setups are possible. The reception procedure is started at the set communication speed.

Default: 0 0 (no fixing) Reception is made at the proper communication speed.

SW16 No. 7 EOL detection timer

Used to set the detection timer of EOL (End Of Life) when Phase-C reception.

When set to 1, the timer is set to 25sec.

When set to 0, the timer is set to 13sec.

Default: 0 (13 sec)

SW16 No. 8 RTN EOL send times

Used to set the RTN EOL send times.

Default: 1 (6 times)

SW17 No. 1 Inhibited to use.

SW17 No. 2 MH fixed (except for SG3)

Used to set whether the encoding system is fixed to MH or not in a mode other than SG3 communication.

When set to 1, the encoding system is fixed to MH.

When set to 0, the encoding system is not fixed to MH.

Default: 0 (The encoding system is not fixed to MH.)

SW17 No. 3 ECM MMR mode (except for SG3)

Used to set whether MMR encoding system is allowed or inhibited, except for SG3 communication.

When set to 1, MMR encoding system is allowed.

When set to 0, MMR encoding system is inhibited.

Default: 1 (MMR encoding system is allowed)

SW17 No. 4 ECM JBIG mode (except for SG3)

Used to set whether JBIG encoding system is allowed or inhibited, except for SG3 communication.

When set to 1, JBIG encoding system is allowed.

When set to 0, JBIG encoding system is inhibited.

Default: 1 (JBIG encoding system is allowed)

SW17 No. 5 Inhibited to use.

SW17 No. 6 MH fixed (SG3)

Used to set whether the encoding system is fixed to MH or not in SG3 communication.

When set to 1, the encoding system is fixed to MH.

When set to 0, the encoding system is not fixed to MH.

Default: 0 (The encoding system is not fixed to MH.)

SW17 No. 7 ECM MMR mode (SG3)

Used to set whether MMR encoding system is allowed or not in SG3 communication.

When set to 1, MMR encoding system is allowed.

When set to 0, MMR encoding system is inhibited.

Default: 1 (MMR encoding system is allowed)

SW17 No. 8 ECM JBIG mode (SG3)

Used to set whether JBIG encoding system is allowed or not in SG3 communication.

When set to 1, JBIG encoding system is allowed.

When set to 0, JBIG encoding system is inhibited.

Default: 1 (JBIG encoding system is allowed)

SW18 No.1–No.4 Setup of number of times of call rings

Used to set the number of call rings until reception is started in auto reception mode.

Setup is in the range of 0 – 9 (times) by binary input.

When set to 0, no ring is made.

Default: 2 times

SW18 No.5–No.8 Inhibited to use.

SW19 No.1–No.4 Minimum pause time (10PPS) setup

Used to set the minimum pause time (10PPS).

Setup is made in the range of 0 (525ms) – 15 (900ms) by binary input of N in "X (ms) = (N × 25) + 525".

Default: 825ms

SW19 No. 5–No.8 Inhibited to use.

SW20 No. 1 Inhibited to use.

SW20 No. 2–No.4 PBX setup (Inhibited except for Germany and France.)

Used to select send signal of register recall.

In concrete, ID (pulse signal up to 3 digits) and Flash (1-pulse signal) are selected.

Default: 0 0 0 (Setup OFF)

SW20 No. 5 SIM DTMF sound speaker selection window

Used to set YES/NO of SIM DTMF sound speaker selection screen.

Default: 0 (NO)

SW20 No.6, No.7 Flash send wait time

Used to set wait time from off-hook status to Flash signal transmission in the register recall function.

Default: 0 0 (0sec) (U.K, France) 1 0 (1sec) (Germany)
(Fixed to 0 except for Germany.)

SW20 No. 8 Receivable memory capacity

Used to set the remaining memory capacity for acceptance of call.

When set to 1, ringing is made until the remaining memory capacity is 64KB or less.

When set to 0, ringing is made until the remaining memory capacity is 128KB or less.

Default: 0 (Ringing is made until the remaining is 128KB or less.)

SW21 No. 1 Dial tone detection

Used to set whether dial tone detection is performed or not in auto dial ringing.

"1": Yes

"0": No

When set to YES and dial tone is not detected, dial is not performed.

Default: 0 (NO)

SW21 No. 2 Busy tone detection

Used to set whether busy tone signal is detected or not in ringing.

When set to 1, busy tone is detected.

When set to 0, busy tone is not detected.

Default: 1 (Busy tone is detected.)

SW21 No. 3 Dial tone monitoring time

Used to set dial tone monitoring time when detecting dial tone.

"1": 10sec

"0": 5sec

Default: 0 (5sec)

SW21 No. 4 CED detection time

Used to set CED/ANSam signal detection time. When the CED/ANSam signal is detected for duration of the set time, it is recognized.

When set to 1, if a signal is detected for 500ms or more, it is recognized.

When set to 0, if a signal is detected for 1000ms or more, it is recognized.

Default: 0 (1000ms or more)

SW21 No.5–No.8 Inhibited to use.

SW22 No.1, No.2 Waiting time for dial start

Used to set wait time from connection of the line to start of dial ringing.

When ringing is made without detecting dial tone, ringing is made after setting this time.

When set to 0 0, ringing is made after 3.5sec.

When set to 0 1, ringing is made after 4sec.

When set to 1 0, ringing is made after 5sec.

When set to 1 1, ringing is made after 6sec.

Default: 3.5sec.

SW22 No.3, No.4 CNG send start time

Used to set the CNG send start time.

Default: 0 0 (0.5 sec)

SW22 No.5, No.6 Tone/pulse default setup

Use line setting (Dial setting)

Selection of 10PPS, 20PPS, and TONE is available.

The setup items are as follows:

bit	5	6	
	0	0	: 10PPS
	0	1	: 20PPS
	1	0	: TONE

Default: 1 0 (Tone)

SW22 No. 7 DPMUTE control

Used to set whether DPMUTE control is used or not.

1: ON

0: OFF

Default: 0 (OFF)

SW22 No. 8 DP dial pulse number process

Used to set the process of the number of DP dialing pulse.

1: 10-N

0: Normal (N)

Default: 0 (Normal N)

SW23 No.1 Inhibited to use.

SW23 No. 2 Monitoring polarity reversion during send image

Used to set YES/NO of monitoring polarity reversion during communication on the dialing side.

When set to 1, polarity reversion is monitored.

When set to 0, polarity reversion is not monitored.

Default: 0 (NO) (fixed)

SW23 No. 3 Monitoring polarity reversion during communication

Used to set whether the poolarity reversion is monitored or not during dialing.

When set to 1, polarity reversion is monitored.

When set to 0, polarity reversion is not monitored.

Default: 0 (NO) (fixed)

SW23 No.4–No.8 Setting of time before dial (10PPS)

Used to set the time before dial (10PPS)

Setup is made in the range of 0 (50ms) – 31 (360ms) by binary input of N in "X (ms) = (N × 10) + 50".

Default: 300ms

SW24 No.1–No.4 Inhibited to use.

SW24 No.5–No.8 Waiting time for OFF HOOK

Used to set the wait time of OFF HOOK.

The set range is 0 (50ms) – 15 (200ms) in the increment of 10ms by binary input of N in “X (ms) = (N x 10) + 50”.

Default: 100ms

SW25 No.1–No.4 Make time (10PPS) setup

Used to set the make rate when dialing at 10PPS.

The set range of N is 0 to 15 in binary input for the make rate of (N +26 ms), which ranges from 26 to 41 ms.

Default: 34ms (U.K., France) 41ms (Germany)

SW25 No.5–No.8 Inhibited to use.

SW26 No.1–No.5 DTMF signal send time

Used to set the send time when sending DTMF signal.

Setup is made in the range of 60 – 310ms by binary input of N in "10(ms) × N" in the increment of 10ms.

N can be set in the range of 6 – 31.

When N is set to 0, it is the same as 110ms (N=11).

Default: 110ms

SW26 No.6–No.8 Minimum pause time (DTMF) setup

Used to set the minimum pause time (DTMF).

Setup is made in the range of 90 – 160ms by binary input of N in "X (ms) = (N × 10) + 90" in the increment of 10ms.

N can be set in the range of 0 – 7.

Default: 120ms

SW27 No. 1 Inhibited to use.

SW27 No.2–No.4 Setting of time before dial (DTMF)

Used to set the time before dial (DTMF)

Setup is made in the range of 30 – 100ms by binary input of N in "X (ms) = (N × 10) + 30" in the increment of 10ms.

N can be set in the range of 0 – 7.

Default: 50ms

SW27 No.5–No.8 Setting of DPMUTE OFF time after dial

Used to set DPMUTE OFF time after dial.

Setup is made in the range of 5 – 80ms by binary input of N in "X (ms) = (N × 5) + 5" in the increment of 5ms.

N can be set in the range of 0 – 15.

Default: 50ms

SW28 No.1–No.4 Pause time setup

Used to set the pause time.

The set range is 1 sec to 15 sec by binary input.

When set to 0 sec, the same as the setup of 2 sec.

Default: 2sec

SW28 No.5, No.6 Flash send time

Used to set ON time of Flash pulse width to be sent in sending Flash signal to the line.

Default: 0 0 (90ms) (Fixed to 0 except for Germany and France.)

SW28 No.7, No.8 Line open delay time in dial test

Used to set the line open delay time in dial test.

Default: 0 0 (2 sec)

SW29 No. 1 Communication record table automatic print

Used to set whether the communication record table is printed automatically when each of transmission/reception data of communication record table reaches 50 items.

When set to 1, the table is automatically printed.

When set to 0, the table is not printed though the data reaches 50 items.

Default: 0 (No print)

SW29 No. 2 Time specification of communication record table

Used to set whether time is enabled or not in the output function of communication record table at the specified time.

Linked with the key operator program.

Default: 0 (Inhibited)

SW29 No.3, No.4 Sequence of year, month, and day on the LCD, the report, and the sender’s record

Used to set the recording sequence of year, month, and day on the LCD, reports, and the sender’s record.

Default: Day, month, year

SW29 No.5–No.8 Call time setup in automatic transmission (T0 timer setup)

Used to set the call time when call does not reach the other party in auto send mode.

The set range is 30 to 75 sec in the increment of 5 sec by binary input of "(5 sec × N) + 30 sec)".

N can be set in the range of 0 – 15. Setting to 10 – 15 (setup of 80 – 105 sec) comes the same as the setup of 45 sec.

Default: 45sec (N=3)

SW30 No.1–No.3 Inhibited to use.

SW30 No.4–No.8 Time specification print (o’clock) on the communication report table

Used to set "o’clock" of the time (o’clock, min) when specifying the time on the communication report table.

Setup is in the range of 0 – 23 (o’clock) by binary input.

When set to 24 – 31, the time is set to 0 o’clock.

Default: 0 o’clock

SW31 No.1, No.2 Inhibited to use.

SW31 No.3–No.8 Time specification print (min) on the communication report table

Used to set "min" of the time (o'clock, min) when specifying the time on the communication report table.

Setup is in the range of 0 – 59 (min) by binary input.

(When set to 60 – 63, the time is set to 0min.)

Default: 0 min

SW32 No.1, No.2 Default telephone book setup

Used to set YES/NO of default telephone book displaying.

Default: 0 0 (Basic screen)

SW32 No. 3 Next address key input in broadcast

Used to set YES/NO of Next address key input in broadcast.

Default: 0 (No)

SW32 No.4, No.5 One-touch dial display number switch

Used to set the number of one-touch dial display.

Default: 0 1 (8)

SW32 No. 6 Shift of the power OFF state in shut off

Used to set whether the shift of the power OFF state in shut off is allowed or inhibited.

Default: 1 (allowed)

SW32 No. 7 Time indication format

Used to set the sequence of year, month, and day in the LCD display, report, and sender record.

When set to 1, time is indicated in AM/PM format.

When set to 0, time is indicated in 24H format.

Default: 0 (24H)

SW32 No. 8 Priority in the day of week

Used to set the recording sequence of the day of month and the day of week if the date is in the sequence of month, day, and year.

Default: 0 (No) (U.K.) 1 (Yes) (Germany, France)

SW33 No. 1 Inhibited to use.

SW33 No. 2 Report output on less than A4 (LTR)

Used to set the report output on less than A4 (LTR).

Default: 0 (Reduction by the record volume)

SW33 No. 3 Own FAX No. mark of TX image

Used to set own number's mark in TX image header. (English only)

When set to 1, mark is TEL icon ( ).

When set to 0, mark is "FAX:".

Default: 0 (FAX:)

SW33 No.4, No.5 Contents of send document are printed in memory send

Used to set Print/Not print part of the sent document in the transmission result table in case of a memory transmission error.

When set to 0 0, the transmitted document is not printed on the transmission result table.

When set to 0 1, all the transmitted document are printed on the transmission result table.

When set to 1 0, the transmitted document is printed on the transmission result table only when the transmission is failed.

Default: 1 0 (when the transmission is failed)

SW33 No. 6 Transmission document content print in F code transmission

Used to set whether the sent document content is print or not in F code transmission.

SW33-4 – 5 must be set to output.

Default: 1 (Not print)

SW33 No. 7 Function to attach images to the report table of memory confidential send

Used to set whether images are attached to the report table of memory confidential send

Default: 0 (NO)

SW33 No. 8 Total communication time and total number of pages print on communication record table

Used to set Print/Not print the total communication time and the total number of pages on the communication record table.

When set to 1, the total communication time and the total number of pages are printed on the communication record table.

When set to 0, not printed on the communication record table.

Default: 1 (YES)

SW34 No.1, No.2 Report output (in reception)

Used to set whether the communication report table is outputted or not when a reception (excluding confidential reception) is made.

Setup is selected from "print inhibition," "all output," and "only when transmission is failed" as follows:

bit	1	2	
	0	0	: Print is inhibited.
	0	1	: Print all
	1	0	: Only in case of an error

Default: 0 0 (printing is inhibited)

SW34 No.3, No.4 Report output (in transmission)

Used to set whether the communication report table is outputted or not after the transmission (excluding broadcast, sequential send request, and relay broadcast).

Setup is selected from "print inhibition," "all output," and "only when transmission is failed" as follows:

bit	3	4	
	0	0	: Print is inhibited.
	0	1	: Print all
	1	0	: Only when transmission is failed

Default: 1 0 (Only when transmission is failed)

SW34 No. 5 Communication report output (in confidential reception)

Used to set whether the communication report table is outputted or not when a confidential reception is made.

When set to 1, the communication report table is printed.

When set to 0, the communication report table is not printed.

Default: 1 (Print)

SW34 No.6, No.7 Report output (In broadcast, sequential send request, and relay broadcast)

Used to set whether the communication report table is outputted or not after the transmission (in broadcast, sequential send request, and relay broadcast).

Setup is selected from "print inhibition," "all output," and "only the address to which transmission is failed" as follows:

bit	6	7	
	0	0	: Print is inhibited.
	0	1	: Print all
	1	0	: Only the address to which transmission is failed

Default: 0 1 (All print)

SW34 No. 8 Report output when canceling

Used to set whether the communication report table is outputted or not when canceling transmission during document transmission.

When set to 1, the communication report table is printed.

When set to 0, the communication report table is not printed.

Default: 0 (No print)

SW35 No. 1 Automatic reduction print

Used to set whether the received document is automatically reduced and printed so that the print-out is fit in a fixed size when the document size is longer than the fixed sizes but smaller than the max. length of automatic reduction ratio.

When set to 1, the document is printed with automatic reduction.

When set to 0, the document is printed without reduction.

Default: 1 (Automatic reduction print enable)

SW35 No. 2 Paper selection priority

Used to set whether the FAX reception paper is selected by data width priority or data area priority.

"1": Width priority

"0": Area priority

Default: 0 (area priority)

SW35 No.3, No.4 Output condition setup

Used to set whether the received data are reduced or divided to print when a document is received and there is no suitable size paper.

bit	3	4	
	0	0	: Reduction allowed
	0	1	: AB
	1	0	: Division allowed
	1	1	: A

Default: 0 0 (Reduction print)

SW35 No.5–No.8 Automatic reduction rate setup

Used to set the length of a received document which can be automatically reduced and printed on paper longer than the fixed sizes when automatic reduction print is allowed.

Setup is made in the range of 0 – 15% by binary input of N in "100% – N × 1%."

Default: 94% (6% reduction)

SW36 No.1–No.4 Waiting time for PC-FAX job end

Used to set the waiting time for PC-FAX job end.

The set range is 0 (32 min) to 15 (2 min) in the increment of 2 min by binary input.

Default: 2 min.

SW36 No.5, No.6 Inhibited to use.

SW36 No.7, No.8 Waiting time for lift-up

Used to set the wait time before starting printing when the cassette is being lift up in print ready state.

Default: 0 0 (30 sec)

SW37 No. 1 Thin paper setup

Used to set whether the thin paper use is allowed or not.

Default: 0 (Inhibited)

SW37 No. 2 Specification of 1m scan when there is no line send setting

Used to set “Reception specification of 1m” when SW37-3 – 6 (Rotation transmission selection) is set to NO.

Default: 0 (Normal operation)

SW37 No. 3 Rotation send selection (A4 → A4R)

Used to set whether A4 document is transmitted as A4 or the scanned image is rotated and transmitted as A4R.

When set to 1, the document is transmitted as A4 width.

When set to 0, the document is transmitted as A3 width.

Default: 1 (Transmitted as A4 width)

SW37 No. 4 Rotation transmission selection (B5R → B5)

Used to set whether B5R document is transmitted as B5R or the scanned image is rotated and transmitted as B5.

When set to 1, the document is transmitted as B4 width (B5).

When set to 0, the document is transmitted as A4 width (B5R).

Default: 1 (Transmitted as B4 width)

SW37 No. 5 Rotation transmission selection (A5R → A5)

Used to set whether A5R document is transmitted as A5R or the scanned image is rotated and transmitted as A5.

When set to 1, the document is transmitted as A4 width (A5).

When set to 0, the document is transmitted as A4 width (A5R).

(However, the transmission width is A4.)

Default: 1 (Transmitted as A4 width (A5))

SW37 No. 6 Rotation transmission selection (11 × 8.5 → 8.5 × 11)

Used to set whether Letter (landscape) document is transmitted as A3 width or the scanned image is rotated and transmitted as A4R width.

Default: 1 (Rotation)

SW37 No. 7 Inhibited to use.

SW37 No. 8 Rotation scan word calculation

Used to set the rootation scan word calculation.

Default: 0 (Round down)

SW38 No. 1 Protocol monitor

Used to set whether communication protocol result is printed after completion of communication or not.

Used for communication test.

Default: 0 (No print)

SW38 No. 2 Output only in case of an error of the protocol monitor

Used to set whether protocol monitor is outputted only when a communication error occurs or every time when communication is completed. Effective when SW38-1 (Protocol monitor) is set to YES. However, only when SW38-1 is set to 1 (YES), protocol monitor is outputted in case of a communication error.

Default: 0 (NO)

SW38 No. 3 Protocol monitor save

Used to set whether the protocol monitor of the final communication is saved or not.

When set to "Saved," the preceding protocol monitor can be printed with SIM 66-21.

Default: 1 (Save)

SW38 No.4, No.5 Line sound monitor range

Used to set the line sound monitor range when the line monitor function is used.

Used to set to monitor NSF signal send/receive until NSF signal is sent/received.

When set to ALL, all procedures up to line disconnection are monitored.

The setup items are as follows:

bit	4	5	
	0	0	: OFF
	0	1	: Until NSF signal is sent/received
	1	0	: All
	1	1	

Default: 0 1 (Up to NSF signal send/receive)

SW38 No. 6 Line monitor display

Used to set whether the communication speed and the reception level are displayed on the LCD or not.

Displayed on the communication status screen by pressing the job status key.

When set to 1, displayed on LCD.

When set to 0, not displayed on LCD.

Default: 0 (not displayed)

SW38 No. 7–No. 8 Inhibited to use.

SW39 No. 1 Received document output setting in reception

Used to set whether all received documents are outputted at a time after completion of reception or each document is outputted every time when it is received.

When set to 1, all are outputted collectively after completion of reception.

When set to 0, output is made after reception of every page.

Default: 1 (Output collectively after completion of reception.)

SW39 No. 2 Specification of data output in case of a communication error in reception

Used to set whether the image on the page where a communication error occurred during image reception is printed or not.

"1": Setup not to print

"0": Setup to print

Default: 0 (Print)

SW39 No. 3 Memory over during reception

Used to set whether the received data are output or destroyed when memory is over during reception.

When set to 1, the received data are outputted.

When set to 0, received data are disposed without output.

The default is 1. (The received data are outputted.)

SW39 No. 4 Output method in A3 width reception(AB series)

Used to set whether an image of 297mm width is reduced and printed or an image of 11" width is printed without reduction on paper of 11" width when an image of A3 width is received. When set to 297mm width, if a document of 11" is received, both ends are not printed.

When set to 1, printing is made on paper of 297mm width.

When set to 0, printing is made on paper of 11" width.

Default: 1 (Printing is made on paper of 297mm width.)

SW39 No. 5 Output method in A4 width reception (AB series)

Used to set whether printing is made on paper of 8.5" width or of 210mm width when an image of A4 width is received. When set to 8.5" width, if printed on A4(R), the image is reduced. When set to 210mm width, if a document of 8.5" is received both ends are not printed.

When set to 1, printing is made on paper of 8.5" width.

When set to 0, printing is made on paper of 210mm width.

Default: 0 (Printing is made on paper of 210mm width.)

SW39 No. 6 Output method in A3 width reception (Inch series)

Used to set whether an image of 297mm width is reduced and printed or an image of 11" width is printed without reduction on paper of 11" width when an image of A3 width is received.

When set to 1, printing is made on paper of 297mm width.

When set to 0, printing is made on paper of 11" width.

Default: 0 (Printed on paper of 11" width)

SW39 No. 7 Output method in A4 width reception (Inch series)

Used to set whether printing is made on paper of 8.5" width or of 210mm width when an image of A4 width is received.

When set to 1, printing is made on paper of 8.5" width.

When set to 0, printing is made on paper of 210mm width.

Default: 1 (Printed on paper of 8.5" width)

SW39 No. 8 Relay data output

Used to set whether the received document is outputted from the relay direction station when relay broadcasting direction is received.

When set to 1, the document received from the relay instruction station is printed.

When set to 0, the document received from the relay instruction station is not printed.

Default: 1 (Print)

SW40 No. 1 Rotation print

Used to set Enable/Disable of rotation print when the received document can be printed by rotation.

When set to 1, the received document is printed by rotation.

When set to 0, the received document is not rotated.

Default: 1 (Printed by rotation)

SW40 No. 2 Override print setup

Used to set whether the latter print job is performed or not when the former print job is suspended at the first page due to printable paper empty.

When set to 1, override print is allowed.

When set to 0, override print is not allowed.

Default: 1 (Override print is allowed)

SW40 No. 3 Page number print setup

Used to set whether the page number is added to the position where date and the sender's information are printed. (In memory transmission, page number/total number of pages)

When set to 1, the page number is printed.

When set to 0, the page number is not printed.

Default: 1 (The page number is printed.)

SW40 No. 4 Index print setup

Used to set whether the index is printed on the received document or not.

When set to 1, the index is printed on the received document.

When set to 0, the index is not printed.

Default: 0 (The index is not printed.)

SW40 No. 5 Duplex rotation print

Used to set the duplex rotation print.

Default: 1 (YES)

SW40 No. 6 Reception data duplex print

Used to set YES/NO of the reception data duplex print.

Default: 0 (NO)

SW40 No. 7 Specification of print sequence in duplex print

Used to specify the print sequence in duplex print.

Default: 1 (Print order (214365...))

SW40 No. 8 Specification of rotating direction duplex back surface print

Used to specify the rotating direction duplex back surface print.

Default: 1 (180° rotation)

SW41 No. 1 External telephone connection

If this switch is not set to YES, an external telephone cannot be used.

Default: 1 (YES)

SW41 No.2–No.4 Inhibited to use.

SW41 No.5–No.8 Interval from completion of a transmission to the next call-out

Used to set the time interval between the end of a communication and a call for the next communication.

Setup is made by binary input in the interval of 0 – 15sec.

Default: 6sec

SW42 No.1–No.3 Communication end buzzer sound length

Used to specify the length of the communication end sound.

Default: 3.0 sec.

SW42 No.4, No.5 Transmission end sound tone

Used to set the transmission end beep sound tone in transmission.

Default: 0 1 (1000Hz)

SW42 No.6, No.7 Reception end sound tone

Used to set the reception end sound beep tone in reception.

Default: 0 1 (1000Hz)

SW42 No. 8 V.34 mode function in manual communication

Used to set Enabled/Disabled V.34 mode function in manual communication.

When set to 1, V.34 mode function is enabled.

When set to 0, V.34 mode function is disabled.

Default: 1 (V.34 mode function is enabled.)

SW43 No. 1 V.34 mode function

Used to set whether V.34 mode is used for send/receive with the other party machine is provided with V.34 mode.

When set to 1, send/receive is made with using V.34 mode.

When set to 0, send/receive is made without using V.34 mode.

Default: 1 (Send/receive is made using V.34 mode)

SW43 No. 2 Super G3 disabled in the last call-out of recall in case of an error

Used to set Enable/disable of Super G3 in the last call-out of recall in case of an error.

Default: 0 (Super G3 is void)

SW43 No. 3 V.34 primary channel return mode

Used to set V.34 primary channel return mode.

Default: 1 (PPh)

SW43 No.4–No.6 Symbol speed mask in V.34 reception

Used to set the symbol speed mask in V.34 reception.

Default: 1 0 1 (3429)

SW43 No. 7 V.34 control channel communication speed

Used to set the communication speed of control channel in V.34 mode transmission.

When set to 1, the communication speed of control channel is 2400bps.

When set to 0, the communication speed of control channel is 1200bps.

Default: 0 (1200bps)

SW43 No. 8 Control channel retrain judgment in V.34 reception

Used to set the control channel retrain judgment in V.34 reception.

Default: 0 (EQM value judgment)

SW44 No.1–No.4 V.34 primary channel transmission speed

Used to set the communication start speed in V.34 mode transmission.

Setup is made in the range of 2400 – 33600bps by binary input of N in "2400 × N".

N can be set in the range of 0 – 15. Setting to 0 comes 2400bps, 15 comes 33600bps.

Default: N=14 (Transmission starts from 33600bps)

SW44 No.5–No.8 V.34 primary channel reception speed

Used to set the reception start speed in V.34 mode.

Setup is made in the range of 2400 – 33600 bps by binary input of N in "2400 (bps) × N".

N can be set in the range of 0 – 15. Setting to 0 comes 2400bps, 15 comes 33600bps.

Default: N=14 (Reception starts from 33600bps)

SW45 No.1, No.2 Speaker volume at scanner scan end

Used to set the volume of scan end sound from the speaker when scan is completed.

Default: 1 0 (Medium)

SW45 No.3–No.8 Pattern number of speaker volume at scan end

Pattern of scan end sound volume (Large/Medium/Small)

Default: 21

SW46 No.1, No.2 Speaker volume in DTMF send

Used to set the volume of transmission sound and DTMF sound from speaker when pressing on-hook button.

Default: 1 0 (Medium)

SW46 No.3–No.8 Pattern number of speaker volume in DTMF send

Pattern of volume in DTMF send (Large/Medium/Small)

Default: 21

SW47 No.1, No.2 Volume of line monitor from speaker

Used to set the line sound volume from the speaker in FAX transmission.

Default: 0 0 (Silent)

SW47 No.3–No.8 Pattern number of line monitor's volume

Pattern of line monitor volume (Large/Medium/Small)

Default: 21

SW48 No.1, No.2 Volume of communication end sound

Used to set the volume of communication end sound from the speaker when communication is completed.

Default: 1 0 (Medium)

SW48 No.3–No.8 Pattern number of communication end sound

Pattern of communication end sound volume (Large/Medium/Small)

Default: 21

SW49 No.1, No.2 On-hook speaker volume

Used to set the volume from the speaker in on-hook.

Default: 1 0 (Medium)

SW49 No.3–No.8 Pattern number of on-hook speaker volume

Used to set the volume pattern (large/medium/small) in on-hook.

Refer to SIM66-37.

Default: 21

SW50 No.1, No.2 Call sound volume

Used to set the ringing sound volume.

Default: 1 0 (Medium)

SW50 No.3–No.8 Pattern number of ringing speaker volume

Pattern of call sound volume (Large/Medium/Small)

Default: 21

SW51 No.1, No.2 Busy tone detection cycle

Used to set the number of pulses of busy tone detected to recognize as busy tone.

When set to 0 0, 2 pulses are detected.

When set to 0 1, 4 pulses are detected.

When set to 1 0, 6 pulses are detected.

When set to 1 1, 10 pulses are detected.

Default: 0 0 (2 pulses are detected)

SW51 No. 3 Busy tone detection time (Upper limit)

Busy tone detection time (Upper limit)

1: 650ms 0: 750ms

Default: 0 (750ms)

SW51 No. 4 Busy tone detection time (Lower limit)

Busy tone detection time (Lower limit)

1: 350ms 0: 250ms

Default: 0 (250ms)

SW51 No. 5 Busy tone detection time (Lower limit 2)

Busy tone detection time lower limit 2

1: 150ms 0: Follows SW51-4.

Default: 0 (Follows SW51-4)

SW51 No. 6, No. 7 Inhibited to use.

SW51 No. 8 SDT signal detection

Used to set whether SDT signal which is the second dial tone when transmitting to F net is detected or not.

When the SDT signal is not detected, dial is made normally even after "16×."

When set to 1, the signal is detected.

When set to 0, the signal is not detected.

Default: 0 (Not detected)

SW52 No.1, No.2 DT/BT detection frequency range

Used to set the DT/BT detection frequency range.

Default: 0 1 (420Hz to 680Hz)

SW52 No. 3 Busy tone detection level table

Used to set the busy tone detection level table.

Default: 0 (constant (ROM))

SW52 No.4, No.5 Busy tone detection level

Used to set the lowest detection level when detecting busy tone.

When set to 0 0, busy tone of –43dB is detected.

When set to 0 1, busy tone of –35dB is detected.

When set to 1 0, busy tone of –33dB is detected.

When set to 1 1, busy tone of –30dB is detected.

This setting is made when busy tone is erroneously detected.

Default: 0 0 (–43dB)

SW52 No.6–No.8 Inhibited to use.

SW53 No.1–No.8 Inhibited to use.

SW54 No.1–No.8 Inhibited to use.

SW55 No.1–No.8 Inhibited to use.

SW56 No.1–No.8 Inhibited to use.

SW57 No.1–No.8 Inhibited to use.

SW58 No.1, No.2 Inhibited to use.

SW58 No.3–No.8 External connection sound volume

Used to set External connection sound volume.

The set range is 0 (0.0dBm) to 48 (–24.0dBm) in the increment of 0.5dBm by binary input.

When set to 49 or greater, the setup value comes as below.

49=–28.0dBm 50=–32.0dBm 51=–36.0dBm 52=–40.0dBm

53=–48.0dBm 54=–56.0dBm 55=–63.0dBm 56 = – ∞ infinite (mute)

Default: –10.0dBm

SW59 No.1–No.4 Signal send level Max.

Used to set Signal send level Max.

The set range is 0 (0dBm) to 15 (–15dBm) in the increment of 1dBm by binary input.

Default: –6dBm

SW59 No.5, No.6 Transmission cable amplitude equalizer

Used to set Transmission cable amplitude equalizer.

Default: 0 0 (0dB)

SW59 No.7, No.8 Reception cable amplitude equalizer

Used to set Reception cable amplitude equalizer.

Default: 0 0 (0dB)

SW60 No.1, No.2 Reception SED ON level

Used to set Reception SED ON level.

Default: 1 1 (–48dB)

SW60 No. 3 Inhibited to use.

SW60 No.4–No.8 Reception gain adjustment

Used to set Reception gain adjustment.

The set range is 0 (+6.0dBm) to 24 (–6.0dBm) in the increment of 0.5dBm by binary input.

Default: 0.0dBm

SW61 No. 1–No.8 Inhibited to use.

SW62 No.1–No.8 Inhibited to use.

SW63 No.1–No.8 Inhibited to use.

SW64 No.1–No.3 Inhibited to use.

SW64 No.4–No.8 DTMF send level (high level)

Used to set the DTMF signal send level (high group).

0 (0.0dBm) to 21 (–21.0dBm) in the increment of 1dBm

Default: –6dBm

SW65 No.1–No.4 Maximum DTMF send level

Used to set the maximum send level in DTMF signal send.

Setup is made in the range of 0 (0.0dBm) to 15 (–15.0dBm) by binary input.

The setup is made in the increment of 1dB.

Default: 0dBm

SW65 No.5–No.8 DTMF send level (difference between high and low level)

Used to set the DTMF signal send level (low group).

0 (–2.0dBm) to 15 (+5.5dBm) in the increment of 0.5dBm

Default: +2.0dBm

SW66 No. 1 Default date, sender print

Used to set whether the registered sender information and date and time of transmission are printed at the top of the transmission document when a document is transmitted through the second line.

When set to 1, date and sender are printed.

When set to 0, date and sender are not printed.

Default: 1 (Date and sender are printed)

SW66 No. 2 Department number notification

Used to set whether the department number is transmitted as sender information when the department management function is enabled.

Default: 0 (OFF)

SW66 No. 3 Date and sender print position setup

Used to set the print position of date and transmitter information on the transmitted documents.

When set to 1, added upper inside the document.

When set to 0, added outside the document.

Default: 0 (Added outside the document)

SW66 No. 4, No. 5 Inhibited to use.

SW66 No.6–No.8 Polarity reversion settlement time

Used to set Polarity reversion settlement time.

Setup is made in the range of 200ms – 1600ms by binary input.

Default: 200ms

SW67 No.1–No.4 After sending CFR, double wait is inhibited for 1.6sec.

Used to set that the double wait is inhibited for 1.6sec. after sending CFR.

Setup is made in the range of 0ms – 3000ms by binary input.

Default: 1600ms

SW67 No. 5 Measurement of communication time (image)

Used to set YES/NO of measurement.

Used to measure the communication time in phase C. However, it is the communication time in the latest phase C. (Unit: msec)

Default: 1 (YES)

SW67 No. 6 Reduction transmission mode

Used to set whether the transmitted document is received in reduction size or both ends of recording paper are cut when the transmitted document width is greater than the recording paper width.

When set to 1, the document is sent without reduction with the both ends cut.

When set to "0", it is reduced and transmitted.

Default: 0 (Reduction)

SW67 No. 7 ECM

Used to set whether ECM (Error Correction Mode) is performed or not. When, however, SW43-1 (V.34 mode function) is set to OFF, or when SW43-1(V.34 mode function is set to ON and the transmission is not the super G3 transmission, ECM Disable setup is effective. This is because the ECM function is indispensable in a transmission other than super G3 transmission in V.34 mode and the other party machine may perform checking. With SW43-1 (V.34 mode function) is ON and this reception function is disabled.

When set to 1, ECM is enabled.

When set to "0", ECM is disabled.

Default: 1 (ECM is enabled)

SW67 No. 8 ECM byte/frame

Used to set ECM byte/frame.

Default: 0 (256 [bytes/frame])

SW68 No.1–No.4 Recording paper tray selection (Tray 1 – 4)

Used to select the tray for output of the received documents.

Tray 1 to Tray 4 can be set to ON/OFF individually. When set to OFF, the tray does not output received documents.

Setup is made by selecting bit 1 – bit 4. Each bit is selected in the sequence of tray 1 – tray 4.

When 1 is selected, output is made by using that tray.

When 0 is selected, output is not made by using that tray.

Default: Tray 1 – tray 4 are used. (1)

bit 1 : Tray 1
bit 2 : Tray 2
bit 3 : Tray 3
bit 4 : Tray 4

SW68 No.5–No.8 The tray specification of Duplex print (Tray 1 – 4)

Used to select the tray for output of the duplex documents.

Tray 1 to Tray 4 can be set to ON/OFF individually. When set to OFF, the tray does not output received documents.

Setup is made by selecting bit 5 – bit 8. Each bit is selected in the sequence of tray 1 – tray 4.

When 1 is selected, output is made by using that tray.

When 0 is selected, output is not made by using that tray.

Default: Tray 1 – tray 4 are used. (1)

bit 5 : Tray 1
bit 6 : Tray 2
bit 7 : Tray 3
bit 8 : Tray 4

SW69 No.1, No.2 Reception size specification (Reception capacity)

Used to set the receivable document width which is notified to the other party when receiving a document.

The setup items are as follows:

bit 1 2
0 0 : By the equipped cassette
0 1 : B4 (A4, B4)
1 0 : A4
1 1 : A3 (A4, B4, A3)

Default: 0 0 (Varies depending on the installed cassette.)

Max. allowed reception width selection

Max. allowed reception width is determined by Table 1 and Table 2. This determines the transmitted size from the other party.

When set to A3 with SW69-12, only with B5 cassette, proxy reception is always performed. Do not use this combination. (Because division process in the main scanning direction is not performed.)

When set to A4 with SW69-12, , A3 document from the other party is not divided into A4 paper but reduction to A4width is requested to the other party.

- Max. allowed reception width setup

SW69		Size specification	Allowable reception width
No.1	No.2		
0	0	Depends on the installed cassette.	Varies according to the table below.
0	1	B4	A4 & B4 width
1	0	A4	A4 width
1	1	A3	A4 & B4 & A3 width

- Max. allowable reception width by installed cassette

[Max. paper size of installed cassette with FAX function]	→	[Sampled paper size (data width)]
A5	→	A4
B5	→	B4
A4	→	A3
B4	→	B4
A3	→	A3
No cassette with FAX function	→	A3

SW69 No. 3 11 inch reception capacity setup

When SW69-12, is set to “Depends on installed cassette,” the max. allowable reception width by 8.5" × 11" cassette is set.

When set to 1, the reception allowable width is 255mm or 215mm.

When set to 0, the reception allowable width is 303mm or 255mm or 215mm.

Default: 0 (the reception allowable width is 303mm or 255mm or 215mm)

SW69 No. 4 Maximum reception length

Used to set the receivable document width which is notified to the other party when a long document is sent from the other party.

When set to 1, reception is made without limitations.

When set to 0, if reception of a document reaches 1.5m, reception is terminated.

Default: 0 (Reception is terminated after receiving 1.5m.)

SW69 No.5, No.6 Image quality in transmission request

Used to set the image capacity of the machine when send request (polling).

Reflected on DTC.

Default: 0 0 (ultra fine)

SW69 No. 7 Countermeasures for echo in reception (CED tone send interval)

Used to select ON/OFF of countermeasures against echo.

An interval of 500ms is inserted before DIS transmission.

Default: 0 (75ms)

SW69 No. 8 Countermeasure for echo in transmission (After reception of DIS, hold time up to signal send is set.)

Used to select ON/OFF of countermeasures against echo.

An interval of 500ms is inserted before DCS transmission.

Default: 0 (200ms)

SW70 No. 1 CED signal send

Used to set whether CED signal is sent or not. This setup is effective only when SW43-1 (V.34 mode function) is off. This is because V.34 mode requires sending of ANSam signal.

When set to 1, CED (ANSam) signal is sent.

When set to 0, CED (ANSam) signal is not sent.

Default: 1 (CED (ANSam) signal is sent)

SW70 No. 2 CSI transmission

CSI signal includes the telephone number registered as sender's number. Used to set whether this signal is sent or not.

When set to 1, CSI signal is sent.

When set to 0, CSI signal is not sent.

Default: 1 (CSI signal is sent)

SW70 No. 3 DIS reception check in G3 send

Used to set whether DIS reception is checked or not in a send mode other than SG3 send.

When set to 1, DIS reception is always checked twice.

When set to 0, DIS reception is checked once.

Default: 0 (1 time)

SW70 No.4, No.5 DIS process selection in reception

Used to set the process when DIS is received.

When set to 0 0, it is judged as reception of echo and the command is sent again.

When set to 0 1, the line is disconnected as improper DIS.

When set to 1 0, when DIS judges that the receiver has poled documents, poled transmission and the other are judged as reception of an echo and the command is sent again.

When set to 1 1, when DIS judges that the receiver has poled documents, poled transmission is made. When DIS judges that the transmitter received an echo, the command is sent again. In the other case, it is judged as improper DIS and the line is disconnected.

Default: 0 0 (Judged as reception of echo, and the command is sent again.)

SW70 No. 6 DIS 41Bit or later enable/disable

Used to set Enable/Disable of DIS 41Bit or later

Default: 0 (Enabled)

SW70 No. 7 Time between DCS and TCF

Used to set the time between DCS and TCF.

Default: 1 (75ms)

SW70 No. 8 TCF check time

Used to set TCF check time

Default: 1 (1.0sec)

SW71 No.1–No.3 Inhibited to use.

SW71 No. 4 Telephone line menu

Used to set whether Tone/Pulse setup is displayed on the menu or not.

Default: 1 (Inhibited)

SW71 No. 5–No.8 Inhibited to use.

SW72 No.1, No.2 RCP send times

Used to set RCP send times.

Default: 0 0 (3 times)

SW72 No.3–No.6 The number of the flag detection bytes

Used to set the number of the flag detection bytes.

Setup is made in the range of 0 – 15 by binary input.

Default: 4

SW72 No. 7 EYE-Q check

Used to set whether TCF is checked or not in TCF reception.

When set to 1, check is made only with EYE-Q value. Therefore, TCF check becomes loose.

When set to 0, check is made both with received data and EYE-Q value.

Default: 0 (check is made both with received data and EYE-Q value.)

SW72 No. 8 Operation when error frame is received.

Used to set the operation when image data with error frame is received.

"1": Continues process.

"0": Process is not continued. (Judged as an error.)

Default: 0 (Process is not continued. (Judged as an error.))

SW73 No. 1 Error process in RTN reception

Used to set whether RTN reception is treated as a communication error or not.

When set to 1, it is not judged as an error when RTN is received.

When set to 0, it is judged as an error when RTN is received.

Default: 0 (it is judged as an error)

SW73 No.2, No.3 RTN send line error rate

Used to set RTN send line error rate.

Default: 1 0 (60 lines)

SW73 No.4, No.5 Flag-address timer setup (V.21-FSK)

Used to set the time between Flag-adrs during FSk signal reception in a communication other than V.34 mode.

FSK signal reception in V.34 does not conform to this soft switch.

Default: 0 0 (6 sec)

SW73 No. 6 Reception waiting time between frames

Used to set Reception waiting time between frames.

Default: 0 (3.4sec)

SW73 No.7, No.8 Minimum flags between frames

Used to set Minimum flags between frames.

Default: 0 0 (2-flag)

SW74 No.1–No.4 FSK signal settlement time in double wait

Used to set FSK signal settlement time in double wait.

Setup is made in the range of 200 – 950ms by binary input of N in "X (ms) = 50 (ms) × N + 200".

N can be set in the range of 0 – 15.

Default: 400ms

SW74 No.5, No.6 Preamble send time of 300bps

Used to set the preamble send time of 300bps.

Default: 0 1 (1.0 sec)

SW74 No.7, No.8 Phase C head dummy data send time

Used to set Phase C head dummy data send time.

Default: 0 0 (0.2 sec)

SW75 No.1, No.2 Waiting time for CED send start

Used to set the waiting time for CED send start.

Default: 0 0 (2.25 sec)

SW75 No.3, No.4 CED signal send time

Used to set CED signal send time.

Default: 0 0 (3 sec)

SW75 No.5, No.6 Waiting time for ANSam send start

Used to set the waiting time for ANSam send start.

Default: 0 0 (2.25 sec)

SW75 No.7, No.8 ANSam signal send time

Used to set ANSam signal send time.

Default: 0 1 (4 sec)

SW76 No. 1–No. 8 Inhibited to use.

SW77 No. 1–No. 8 Inhibited to use.

SW78 No. 1–No. 8 Inhibited to use.

SW79 No. 1–No. 8 Inhibited to use.

SW80 No. 1–No. 8 Inhibited to use.

SW81 No. 1–No. 8 Inhibited to use.

SW82 No. 1 CI signal ON time in V.8 mode

Used to set the CI signal ON time in V.8 mode.

Default: 0 (9 bytes)

SW82 No. 2 CI signal OFF time in V.8 mode

Used to set the CI signal OFf time in V.8 mode.

Default: 0 (1sec)

SW82 No. 3 Inhibited to use.

SW82 No.4, No.5 CI receive number to shift to non-V.34 communication

Used to set CI receive number to shift to non-V.34 communication.

Default: 1 0 (2 times)

SW82 No.6–No.8 CI send number to shift to Non-V.34 communication

Used to set CI send number to shift to non-V.34 communication.

Setup is made in the range of 0 – 7 by binary input.

When set to 0, retrain is not made.

Default: 2

SW83 No.1–No.8 Inhibited to use.

SW84 No.1–No.8 Inhibited to use.

SW85 No.1–No.8 Inhibited to use.

SW86 No.1 Inhibited to use.

SW86 No.2, No.3 CI detection

Used to set the frequency to detect CI signal which is the calling signal as follows:

bit	2	3	
	0	0	: 4 sine wave
	1	0	: 3 sine wave
	0	1	: 2 sine wave

Default: 0 0 (4 sine wave)

SW86 No.4, No.5 CI delete max. OFF time

Used to set the max. wait time from detection of CI signal pulse (number of times) to the next CI signal pulse detection. If next CI signal pulse is not detected within this time, the number of calls up to now is cleared.

The setup items are as follows:

bit	4	5	
	0	0	: 5sec
	0	1	: 10sec
	1	0	: 15sec
	1	1	: 20sec

Default: 0 1 (10 sec)

SW86 No.6–No.8 CI signal ON detection enable time

Used to set the time to judge that CI signal is ON.

The CI signal of less than this setup time is not regarded as ON.

The set range is 0 (155ms) – 7 (225ms) in the increment of 10ms.

Default: 155ms

SW87 No.1–No.7 CI signal OFF detectable time

Used to set the min. OFF time for judgment of CI pulse (16Hz call signal). When OFF time continues for more than the set time, it is judged as 1 pulse of CI.

The set range is 0 to 1270 by binary input of "N × 10ms".

Default: 1200ms

SW87 No. 8 Inhibited to use.

SW88 No.1–No.8 Inhibited to use.

SW89 No. 1–No.8 Inhibited to use.

SW90 No. 1–No.8 Inhibited to use.

SW91 No. 1–No.8 Inhibited to use.

SW92 No.1–No.8 Inhibited to use.

SW93 No.1–No.8 Inhibited to use.

SW94 No.1–No.8 Inhibited to use.

SW95 No.1–No.4 Inhibited to use.

SW95 No.5–No.8 T1 timer setup

Used to set time-out time from phase B to detection of signal.

T1 time-out time is set in the range of 15 – 90sec (in the increment of 5sec).

Default: 40sec

SW96 No.1, No.8 Inhibited to use.

SW97 No.1–No.8 Inhibited to use.

SW98 No.1–No.8 Inhibited to use.

SW99 No.1–No.8 Inhibited to use.

SW100 No.1–No.8 Inhibited to use.

SW101 No.1–No.8 Inhibited to use.

SW102 No.1–No.8 Inhibited to use.

SW103 No.1–No.8 Inhibited to use.

SW104 No.1–No.8 Inhibited to use.

SW105 No.1–No.8 Inhibited to use.

SW106 No.1–No.8 Inhibited to use.

SW107 No.1–No.8 Inhibited to use.

SW108 No.1–No.8 Inhibited to use.

SW109 No.1–No.4 Print lead edge adjustment (Left edge adjustment)

Setup of print image area void

The quantity of void at the left edge in main scan direction can be adjusted. When the set value is increased, the image void is increased.

Setup of SIM 50-9 is reflected.

0 to ±112 dots in the interval of 16 dots

Default: 48 dots

SW109 No.5–No.8 Print lead edge adjustment (Lead edge adjustment)

Setup of print image area void

The quantity of void at the lead edge in sub scan direction can be adjusted. When the set value is increased, the image void is increased.

Setup of SIM 50-9 is reflected.

0 to ±112 dots in the interval of 16 dots

Default: 48 dots

SW110 No.1–No.4 Print lead edge adjustment (Rear edge adjustment)

Setup of print image area void

The quantity of void at the lead edge in sub scan direction can be adjusted. When the set value is increased, the image void is increased.

Setup of SIM 50-9 is reflected.

0 to ±112 dots in the interval of 16 dots

Default: 48 dots

SW110 No.5–No.8 Print lead edge adjustment (left edge position) rear

Setup of print image area void

The quantity of void at the left edge in main scan direction can be adjusted. When the set value is increased, the image void is increased.

Setup of SIM 50-9 is reflected.

0 to ±112 dots in the interval of 16 dots

Default: 48 dots

SW111 No.1–No.4 Print lead edge adjustment (lead edge position) rear

Setup of print image area void

The quantity of void at the lead edge in sub scan direction can be adjusted. When the set value is increased, the image void is increased.

Setup of SIM 50-9 is reflected.

0 to ±112 lines in the interval of 16 lines

Default: 48 lines

SW111 No.5–No.8 Print lead edge adjustment (rear edge position) rear

Setup of print image area void

The quantity of void at the lead edge in sub scan direction can be adjusted. When the set value is increased, the image void is increased.

Setup of SIM 50-9 is reflected.

0 to ±112 lines in the interval of 16 lines

Default: 48 lines

SW112 No.1–No.8 Print magnification ratio adjustment (horizontal)

Used to adjust the print magnification radio in main scan direction.

Setup of SIM 48-9 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW113 No.1–No.8 Print magnification radio adjustment (vertical)

Used to adjust the print magnification radio in sub scan direction.

Setup of SIM 48-9 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW114 No.1–No.4 Scan effective image area (OC) vertical lead edge image loss

Used to set the image loss in OC scan image area.

The quantity of image loss at the lead edge in sub scan direction can be adjusted. When the set value is increased, the lead edge image loss quantity is increased.

Setup of SIM 50-8 is reflected.

0 to ±56 lines in the interval of 8 lines

Default: 0 lines

SW114 No.5–No.8 Vertical rear edge image loss in scan effective image area (OC)

Used to set the image loss in OC scan image area.

The quantity of image loss at the rear edge in sub scan direction can be adjusted. When the set value is increased, the image loss quantity at the rear edge is increased.

Setup of SIM 50-8 is reflected.

0 to ±56 lines in the interval of 8 lines

Default: 0 lines

SW115 No.1–No.4 Scan effective image area (OC) horizontal left edge image loss

Used to set the left edge image loss of main scan in OC scan of FAX.

Setup of SIM 50-8 is reflected.

0 to ±56 lines in the interval of 8 lines

Default: 0 lines

SW115 No.5–No.8 Scan effective image area (OC) horizontal right edge image loss

Used to set the right edge image loss of main scan in OC scan of FAX.

Setup of SIM 50-8 is reflected.

0 to ±56 lines in the interval of 8 lines

Default: 0 lines

SW116 No.1–No.8 Scan magnification adjustment OC (horizontal)

Used to adjust the OC scan magnification ratio in main scan direction.

Setup of SIM 48-8 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW117 No.1–No.8 Scan magnification ratio adjustment OC (vertical)

Used to adjust the OC scan magnification ratio in sub scan direction.

Setup of SIM 48-8 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW118 No.1–No.4 Scan effective image area (SPF) vertical lead edge image loss

Used to set the image loss in SPF scan image area.

The quantity of image loss at the lead edge in sub scan direction can be adjusted. When the set value is increased, the lead edge image loss quantity is increased.

Setup of SIM 50-8 is reflected.

0 to ±56 lines in the interval of 81 lines

Default: 0 lines

SW118 No.5–No.8 Vertical rear edge image loss in scan effective image area (SPF)

Used to set the image loss in SPF scan image area.

The quantity of image loss at the rear edge in sub scan direction can be adjusted. When the set value is increased, the image loss quantity at the rear edge is increased.

Setup of SIM 50-8 is reflected.

0 to ±14 lines in the interval of 21 lines

Default: +0 lines

SW119 No.1–No.4 Scan effective image area (SPF) horizontal left edge image loss

Used to set the left edge image loss of main scan in SPF scan of FAX.

Setup of SIM 50-8 is reflected.

0 to ±56 dots in the interval of 8 dots

Default: +0 dots

SW119 No.5–No.8 Scan effective image area (SPF) horizontal right edge image loss

Used to set the right edge image loss of main scan in SPF scan of FAX.

Setup of SIM 50-8 is reflected.

0 to ±56 dots in the interval of 8 dots

Default: +0 dots

SW120 No.1–No.4 Scan effective image area (SPF) rear vertical lead edge image loss

Used to set the image loss in SPF scan image area.

The quantity of image loss at the lead edge in sub scan direction can be adjusted. When the set value is increased, the lead edge image loss quantity is increased.

Setup of SIM 50-8 is reflected.

0 to ±56 dots in the interval of 8 dots

Default: +0 dots

SW120 No.5–No.8 Scan effective image area (SPF) rear vertical rear edge image loss

Used to set the image loss in SPF scan image area.

The quantity of image loss at the rear edge in sub scan direction can be adjusted. When the set value is increased, the image loss quantity at the rear edge is increased.

Setup of SIM 50-8 is reflected.

0 to ±14 lines in the interval of 2 lines

Default: +0 lines

SW121 No.1–No.4 Scan effective image area (SPF) rear horizontal left edge image loss

Used to set the left edge image loss of main scan in SPF scan of FAX.

Setup of SIM 50-8 is reflected.

0 to ±56 dots in the interval of 8 dots

Default: +0 dots

SW121 No.5–No.8 Scan effective image area (SPF) rear horizontal right edge image loss

Used to set the right edge image loss of main scan in SPF scan of FAX.

Setup of SIM 50-8 is reflected.

0 to ±56 dots in the interval of 8 dots

Default: +0 dots

SW122 No.1–No.8 Scan magnification ratio adjustment SPF (horizontal)

SPF main scan magnification ratio adjustment

Setup of SIM 48-8 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW123 No.1–No.8 Scan magnification ratio adjustment SPF (vertical)

SPF sub scan magnification ratio adjustment

Setup of SIM 48-8 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW124 No.1–No.8 Print magnification ratio adjustment rear (horizontal)

Used to adjust the print magnification radio in main scan direction.

Setup of SIM 48-9 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW125 No.1–No.8 Print magnification ratio adjustment rear (vertical)

Used to adjust the print magnification radio in sub scan direction.

Setup of SIM 48-9 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW126 No.1–No.8 Scan magnification ratio adjustment SPF rear (horizontal)

SPF main scan magnification ratio adjustment

Setup of SIM 48-8 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW127 No.1–No.8 Scan magnification ratio adjustment SPF rear (vertical)

SPF sub scan magnification ratio adjustment

Setup of SIM 48-8 is reflected.

0 to ±12.7% by increment of 0.1%

Default: 0%

SW128 No.1–No.8 Inhibited to use.

SW129 No.1–No.8 Inhibited to use.

SW130 No.1–No.8 Inhibited to use.

SW131 No.1–No.8 Inhibited to use.

SW132 No.1–No.8 Inhibited to use.

SW133 No.1–No.8 Inhibited to use.

[8] MACHINE OPERATION

1. Key operator program

A. List

Key operator program			Set value (∗: Default value)	Remarks
Fax default settings	Default display settings		Condition settings∗ / Address book (ABC) / Address book (Group)	
	Must input next address key at broadcast setting		ON / OFF∗	
	The number of direct address keys displayed setting		6∗ / 8 / 12 (keys)	
	Initial resolution setting		Standard∗ / Fine / Super fine / Ultra fine	Half tone cannot be selected for standard resolution.
	Initial exposure setting		Auto∗ / Manual (1 – 5)	
	Own number and name set		Registering / Un-registering∗	
	Dial mode setting		Tone∗ / Pulse	
	Pause time setting		1 – 15 (Increment of 1sec.) 2∗ (sec.)	
	Speaker volume setting	Speaker	Small / Medium∗ / Great	
		Ringer volume	Small / Medium∗ / Great / No sound	
		Line monitor	Small / Medium∗ / Great / No sound	
		Transmission complete sound	Small / Medium∗ / Great / No sound	
	Transmission complete sound setting		Pattern 1 / Pattern 2∗ / Pattern 3	
	Transmission complete sound time setting		2.0 / 2.5 / 3.0∗ / 3.5 / 4.0 (sec.)	
	Activity report print select setting	Auto print at memory full	ON / OFF∗	
		Print daily at designated time	ON / OFF∗	
	Transaction report print select setting	Single sending	Print out all report / Print out error report only∗ / No printed report	
		Broadcasting	Print out all report∗ / Print out error report only / No printed report	
		Receiving	Print out all report / Print out error report only / No printed report∗	
		Confidential reception	Print out notice page∗ / Not print out notice page	
	Image memory print select setting		Print out all report / Print out error report only∗ / No printed report	
	Remote reception number setting		0 – 9 5∗	Only when an extension phone is connected
	External telephone setting		ON∗ / OFF	
	PBX setting		ON / OFF∗	France/Germany only
FAX send settings	Auto reduction sending setting		ON∗ / OFF	
	Printing page number at receiver		ON∗/ OFF	
	Date/own number print position setting		Outside the original image∗ / Inside the original image	
	Rotation sending setting		ON∗ / OFF	
	Call timer at memory sending		30 / 45∗ / 60 (sec.)	
	Recall in case of line busy	Number of times	1 – 15 2 (times)∗	
		Interval	1 – 15 3 (min.)∗	
	Recall in case of communication error	Number of times	1 – 15 1 (times)∗	
		Interval	0 – 15 1 (min.)∗	
	Quick on line sending		ON* / OFF	
	Default sending mode		Memory sending∗ / Direct sending	
	Auto cover sheet		ON / OFF∗	
	Slow scan mode		ON / OFF∗	
FAX receive settings	Auto receive reduce setting		ON∗ / OFF	
	Duplex reception setting		ON / OFF∗	
	Print style setting		Print actual size cut of enable / Auto size select∗	
	Number of calls in auto reception		0 – 15 2∗ (times)	
	Set the telephone number for data forwarding		Registering / Un-registering∗	
	Index print		ON / OFF∗	
	Received data print condition		ON∗ / OFF	
	Letter size RX reduse print		ON / OFF∗	
	A3 RX reduce		ON / OFF∗	
	Enter junk fax number		Registering / Un-registering∗	
	ANTI JUNK FAX		ON / OFF∗	
	Times of calls for switching to automatic reception		0 – 9 0∗ (times)	France only

Key operator program			Set value (∗: Default value)	Remarks
Sending options	Passcode number setting		Registering / Un-registering∗	
	Polling security setting		ON∗/ OFF	
	ID number mode		Registering / Un-registering∗	This method can only be used if the other machine is also a Sharp machine (excluding certain models).
	System number mode		Registering / Un-registering∗	
	Relay passcode		Registering / Un-registering∗	
	Confidential code set		Registering / Un-registering∗	
	F-code memory box	Polling memory	Registering / Un-registering∗	
		Confidential	Registering / Un-registering∗	
		Relay broadcast	Registering / Un-registering∗	

B. Operating procedure

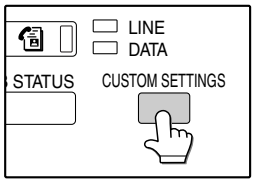
The key operator program can be set from all the modes (copy, FAX, printer, scanner). When setup is completed, the mode returns to the original mode.

Note:

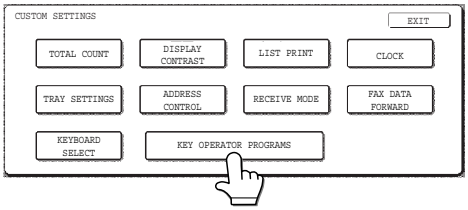
- When the key operator program is used, send/receive of FAX cannot be made.
- The key operator program cannot be used during send/receive of FAX or during communication.

(1) Common procedures

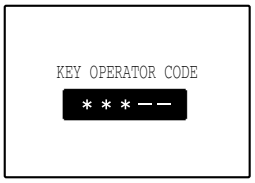
1) Press the [CUSTOM SETTINGS] key.



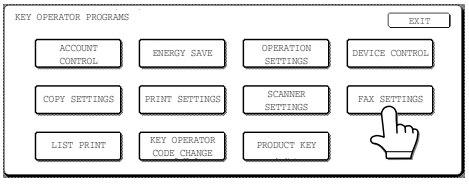
2) Touch the [KEY OPERATOR PROGRAMS] key.



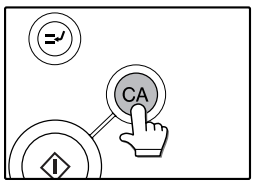
3) Use the numeric keys to enter the five-digit key operater code.



4) Touch the [FAX SETTINGS] key.

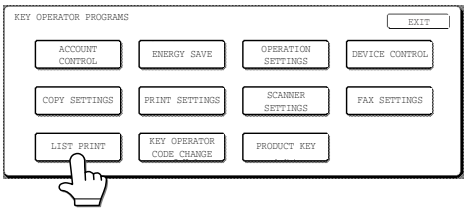


5) Press the [CLEAR ALL] key to exit the program.

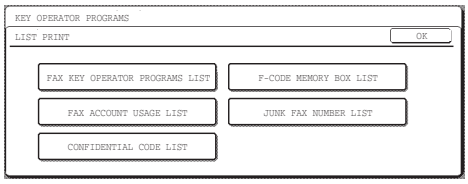


(2) List output

1) Perform common operating procedures up to step 4).
2) Touch the [LIST PRINT] key.



3) Touch a list name to output.
Print is started.

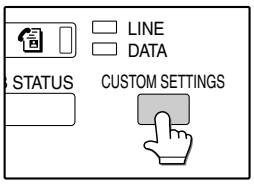


- The list/report which can be printed

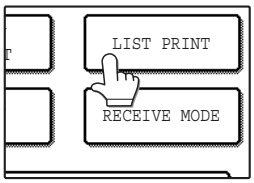
Key operator program list (FAX)	Used to print the FAX key operator program.
FAX account usage list	Used to print communication time and communication pages in each department.
Confidential code list	Used to print the contents of confidential box registration (confidential box number, confidential box name, ID number).
F-code memory box list	Used to print the contents of F code confidential box registration, F code relay group registration, and F code bulletin board registration.
Junk FAX number list	Junk FAX number list is printed.

(3) Print method of record table

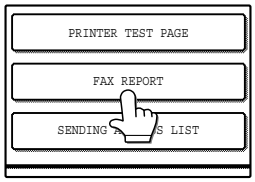
1) Press the [CUSTOM SETTINGS] key.



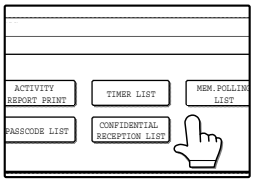
2) Touch the [LIST PRINT] key.



3) Touch the [FAX REPORT] key.



4) Touch the key of the report that you wish to print.
"PRINT JOB IN MEMORY.PLEASE WAIT UNTIL PRINT OUT." appears and printing begins.



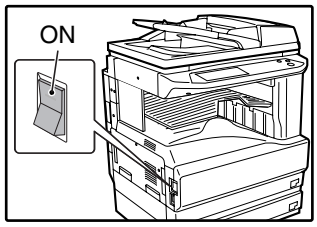
- The report is printed before other print jobs are printed.

Your machine keeps a record of the most recent 50 transactions (both transmissions and receptions) that were performed. The record includes the date of the transaction, the other party's name, the duration, and result. You can have the report automatically printed when the number of transactions exceeds 50, or at a specified time. This allows you to check the machine's activity at regular intervals.

The machine is initially set (factory setting) to never print the report. If you wish to print the report every 50 transactions or have it printed at a specified time, change the setting in the key operator programs.

2. Power switch

Keep the machine's power switch turned on at all times.
Faxes cannot be received if the power is turned off.



3. Originals

A. Original sizes

	Minimum original size	Maximum original size
Using the RSPF	8-1/2" (width) x 5-1/2" (length) [210 mm (width) x 148 mm (length)] 5-1/2" (width) x 8-1/2" (length) [148 mm (width) x 210 mm (length)]	11" (width) x 39.3"* (length) [297 mm (width) x 1000 mm (length)] * Long originals can be loaded. When the scanning resolution is Ultra fine, the maximum length is 34.6" [880 mm].
Using the document glass		11" (width) x 17" (length) [297 mm (width) x 420 mm (length)]

NOTE:

- Originals that are not a standard size (5-1/2" x 8-1/2", 5-1/2" x 8-1/2"R, 8-1/2" x 11", 8-1/2" x 11"R, 8-1/2" x 14", 11" x 17") can also be faxed.
- Because the amount of memory is limited, the scannable length of a long original will vary depending on the resolution setting and the width of the original. If the memory fills up before the entire original can be scanned, use a lower resolution setting or shorten the original.
- There are restrictions on originals that can be scanned using the RSPF.

***Long originals**

Depending on the resolution setting and the width of the original, there may not be sufficient space in memory to hold a long original. In this case, refer to the following table and select a lower resolution setting and/or shorten the original.

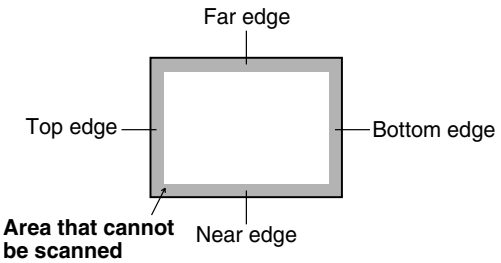
	11" wide	8-1/2" wide
Standard	39.3" [1000 mm]	39.3" [1000 mm]
Fine	39.3" [1000 mm]	39.3" [1000 mm]
Super fine	39.3" [1000 mm]	39.3" [1000 mm]
Ultra fine	34.6" [880 mm]	39.3" [1000 mm]

B. Scanning area of original

Note that the edges of an original cannot be scanned.

Area that cannot be scanned:

- 0.2" [5 mm] or less at top edge and 0.2" [5 mm] or less at bottom edge
- Near edge + far edge = 0.24" [6 mm]



C. Automatic reduction of faxed document

If the width of the faxed document is greater than the receiving machine's maximum receivable width, the document will be automatically reduced.

Faxed document width	Receiving machine's paper width	Reduced size	Ratio
11" x 17"	8-1/2" x 14"	8-1/2" x 14"	1 : 0.70 (Area ratio)
11" x 17"	8-1/2" x 11"	8-1/2" x 11"R	1 : 0.5 (Area ratio)
8-1/2" x 14"	8-1/2" x 11"	8-1/2" x 11"R	1 : 0.64 (Area ratio)

A document can also be faxed without reducing its size. In this case, the left and right edges will not be transmitted.

4. Own number sending

This function prints the date, time, your programmed senderís name, your programmed sender's fax number, and the page number at the top center of each page that you fax.

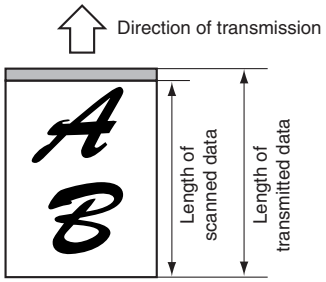
Example of fax page printed out by the receiving machine

1) Date and time: programmed in the custom settings.
2) Sender's name: programmed in the key operator programs.
3) Sender's fax number: programmed in the key operator programs.
4) Page number: 3-digit number appearing in the format, "page number/total pages" (only the page number appears if you use manual transmission or Quick On-Line transmission). If desired, you can use a key operator program to have the page number omitted.

A. Position of sender's information

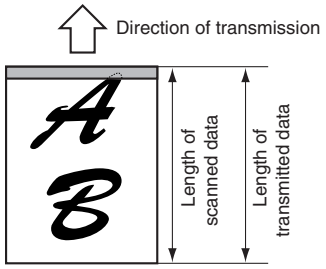
You can select whether the sender's information is added outside the printed fax image or inside the image in the key operator programs. The initial factory setting is outside the image.

Outside scanned data



None of the transmitted image is cut off; however, the transmitted image is longer than the scanned image, and thus when both the sender and the receiver use the same size of paper, the printed fax may either be reduced or split up and printed on two pages.

Inside scanned data



The top edge of the scanned image will be cut off by the sender's information; however, when both the sender and the receiver use the same size of paper, the printed fax will neither be reduced nor split up and printed on two pages.

5. Quick On-line

When the RSPF is used for memory transmission and there are no previously stored jobs waiting or in progress (and the line is not being used), the machine dials the destination and begins transmitting scanned pages while the remaining pages are scanned. This transmission method is called Quick On-line. The messages "SCANNING ORIGINAL." and "CONNECTING." both appear until scanning of the final page is completed.

If the receiving party is busy when a Quick On-line transmission is attempted, the transmission will be automatically reattempted at a later time.

NOTE:

- The machine is initially set (factory setting) to perform Quick On-line transmission. If desired, you can turn off this function in the key operator programs.
- When an original is transmitted using the following methods, the job will be stored in memory (Quick On-line transmission will not be performed):
  1) Sending from the document glass
  2) Broadcast transmission
  3) Timer transmission
  4) F-code transmission

[9] FLASH ROM VERSION UP PROCEDURE

(Necessary items for version-up)

A Personal computer

B RS232C cross cable (D-sub 9pin to D-sub 9pin, or D-sub 25pin to D-sub 9pin)

C Software for version-up

(ROM type)

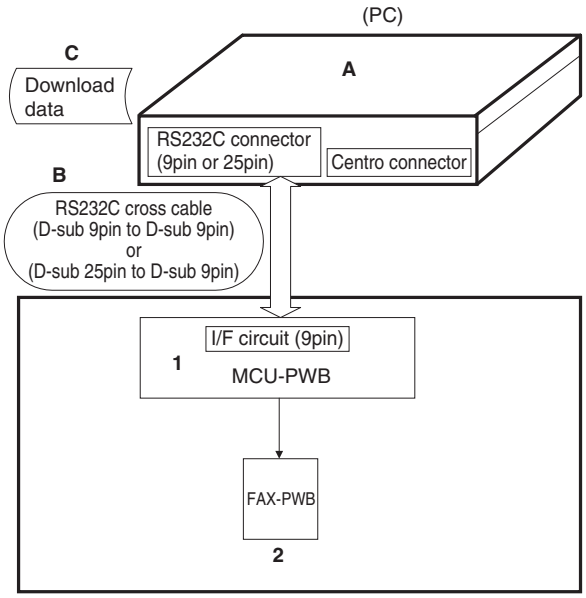
The flash ROM is directly installed to each PWB.

(Target PWB)

1 MCU PWB

2 FAX PWB

Outline of Version-up Procedure



(AR-M236/M276)

Prepare following files necessary for program download

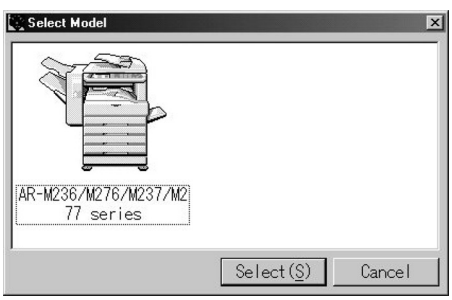
- Maintenance software: maintenance.exe
- Andromeda module file: ProcModelC.mdl (for AR-M236/M276 series)

1. Program download method (for Copier, and fax program)

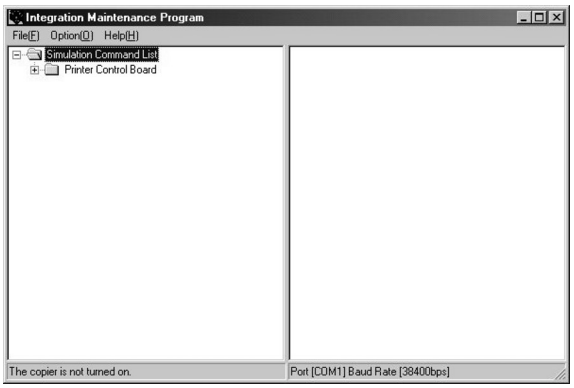
Following operational procedures are for:

- Copier program
- fax program

1) Make sure copier is off, and connect it to PC with download cable beforehand.
2) Start up the maintenance program on PC. Select model name "AR-M236/M276/M237/M277 Series" from the model selection dialogue box.

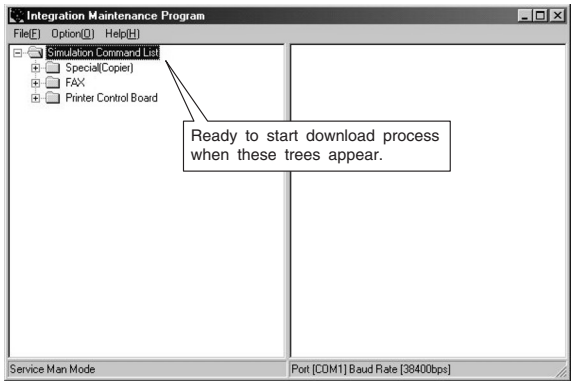


3) Make sure only "Printer Control Board" tree is visible under "Simulation Command List".

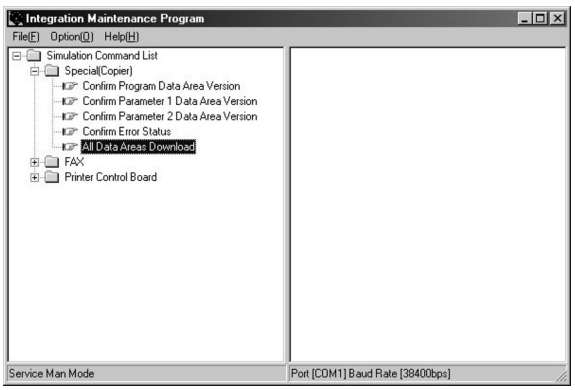


4) Turn on the copier. The machine starts up in the download mode.
5) Additional tree will be visible when downloading maintenance program on PC.

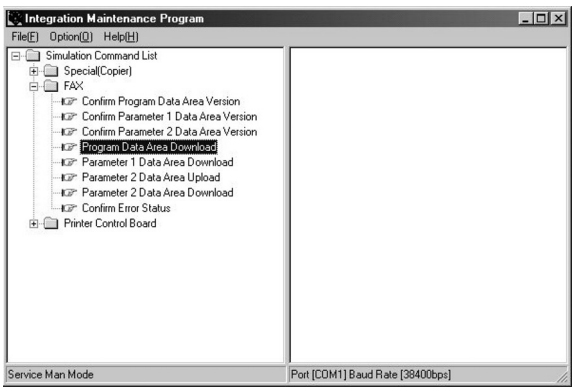
∗ Make sure to start up maintenance program before turn on the machine.



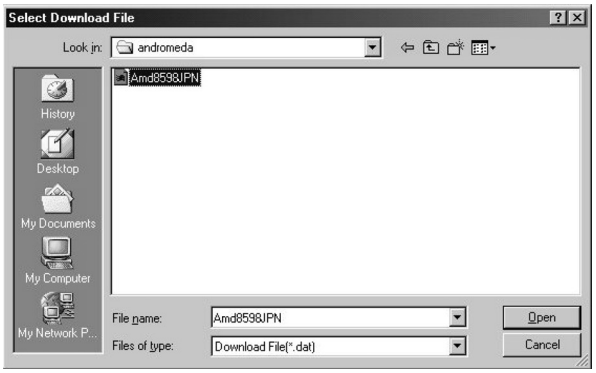
6) When downloading copier program, expand "Special(Copier)", and double-click on "All Data areas Download".



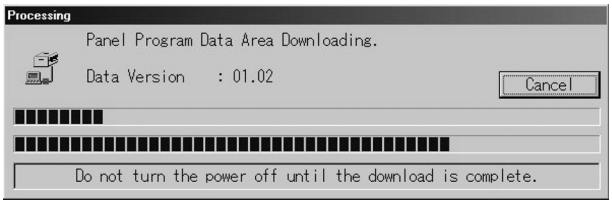
When downloading Fax program, Expand "FAX" and double click on "Program Data Area Download".



7) Select download file(*.dat), and press "Open" button.



8) Download procedure starts automatically.


Processing
Panel Program Data Area Downloading.
Data Version : 01.02
Cancel
Do not turn the power off until the download is complete.

9) Notice message "Download is complete. Check the copier panel to make sure the download is complete." will appear on PC.

10) Close the maintenance program, and turn off the copier. Turn on the copier again after pulling the plug.

This is the end of download procedure.

* It is possible that download process somehow went wrong if the copier does not start up properly. In that case, start up the copier and maintenance program in download mode by repeating the step 1)-5) again. And then, Expand "Special", and double-click on "Confirm Error Status". If any of the message besides "No error has been occurred" appears, it means that download is incomplete, so please try again.

2. Others (Troubleshooting)

Followings are the error possibly occur during the download process and troubleshooting method.

No	Warning/error message	Detail
1	Incorrect destination. Continue with the download process?	Destination of download file and copier doesn't match. Possible to select either continue or cancel the job.
		[TROUBLESHOOTING] To change destination, select "Yes". If not, select "No" and cancel download process.
2	Incorrect download file.	Invalid download file for the machine is selected, or the file format is not correct.
		[TROUBLESHOOTING] Confirm the download file. Possibly the improper download file is selected.
3	No downloadable data included.	Unable to find appropriate data in selected download file.
		[TROUBLESHOOTING] Confirm the download file. Possibly the improper download file is selected.
4	This option not available.	Download procedure is executed on uninstalled optional kit.
		[TROUBLESHOOTING] Confirm installed optional kit. Confirm the download file. Possibly the improper download file is selected.
5	The data size exceeds the Flash ROM size. Try again with the appropriate size of data.	Panel flash ROM size is not enough to execute download procedure.
		[TROUBLESHOOTING] Confirm the download file. Possibly the improper download file is selected. Exchange the flash ROM to the one which has more capacity.
6	Time out error.	Transmission error Unable to receive data from the machine among the certain period of time.
		[TROUBLESHOOTING] Restart maintenance program after confirming communication port or communication cable.
7	Communication (incoming) error.	Incorrect download procedure. The machine did not proceed download procedure correctly.
		[TROUBLESHOOTING] Restart maintenance program after confirming communication port or communication cable. Make sure the communication device of PC(either COM or parallel) is under right condition.
8	Checksum error.	Transmission error The check sum value of the transmission data is mismatch.
		[TROUBLESHOOTING] Restart maintenance program after confirming communication device of PC (either COM or parallel) is under right condition.
9	Error during the download process. Error code: 0xXXXXXXXX	Download data file operation error.
		[TROUBLESHOOTING] Restart maintenance program after confirming the selected download file is not abnormal and not using other application.
10	An error. [0xXXXXXXXX]	The error occurred except the above errors.
		[TROUBLESHOOTING] Restart maintenance program after confirming communication device of PC(either COM or parallel) is under right condition.

[10] TROUBLE CODE LIST

1. Machine trouble codes

Trouble code		Details of trouble	
Main code	Sub code		
F6	00	Content	MCU-FAX communication trouble
		Details	Communication establishment error/ framing/parity/protocol error
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
F6	10	Content	FAX control PWB trouble
		Details	Communication trouble between MCU and FAX control PWB
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error IC on FAX PWB causes abnormality
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM. Replace the FAX PWB.
	80	Content	FAX control PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and FAX control PWB (Protocol error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	81	Content	FAX control PWB communication trouble (Parity)
		Details	Communication trouble between MCU and FAX control PWB (Parity error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
F6	82	Content	FAX control PWB communication trouble (Over-run)
		Details	Communication trouble between MCU and FAX control PWB (Overrun error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	84	Content	FAX control PWB communication trouble (Framing)
		Details	Communication trouble between MCU and FAX control PWB (Framing error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	88	Content	FAX control PWB communication trouble (Timeout)
		Details	Communication trouble between MCU and FAX control PWB (Timeout error)
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM.
	99	Content	FAX control PWB destination error
		Details	The machine destination setup does not coincide with the FAX board destination setup.
		Cause	The machine destination setup (Sim 26-6) does not coincide with the FAX board setup
		Check and remedy	Check the variety of FAX LIU PWB. Check the machine destination setup (Sim 22-6) and FAX country code (Soft SW table).

2. Communication result code

Described on the communication report table, the communication management table, and the protocol communication report table when communication is completed.

A. Composition of communication report code

Communication result X X (X X X X)

Upper 2 digits of a communication result code: Communication report code of 00 - 90 (Refer to the list of communication report codes.)

Lower 4 digits of a communication result code: Codes used by serviceman.

Top 2 digits	Communication report sub code 1 (Refer to the list of communication sub code 1.)
Bottom 2 digits	Communication report sub code 2 (Refer to the list of communication sub code 2.)

Note) Communication report sub code 1 and sub code 2 are in hexadecimal. (The others are in decimal.)

<Communication result code list>

Result code	Final reception signal (Transmitting side)	Final reception signal (Receiving side)
0	Abnormal signal	Abnormal signal
1	NSF, DIS	(SID), (SUB), NSS, DCS
2	CFR	(PWD), (SEP), NSC, DTC
3	FTT	EOP
4	MCF	EOM
5	PIP, PIN	MPS
6	RTN, RTP	PRI-Q
7	No signal, DCN	DCN
8	PPR	PPS-EOP
9		PPS-EOM
10		PPS-MPS, PPS-NULL
11	RNR	RR
12	CTR	CTC
13	ERR	EOR-Q
14		PPS-PRI-Q
15		
16	Abnormal signal	Abnormal signal
17	NSF, DIS	SID, SUB, NSS, DCS
18	CFR	PWD, SEP, NSC, DTC
19	FTT	PPS-EOP
20	MCF	PPS-EOM
21	PIP, PIN	PPS-MPS, PPS-NULL
22	RTN, RTP	PRI-Q
23	No signal, DCN	DCN
24	PPR	
25	RNR	RR
26	CTR	CTC
27	ERR	EOR-Q
28		PPS-PRI-Q
29	V.8 Phase-1	V.8 Phase-1
30	V.8 Phase-2	V.8 Phase-2
31	V.8 Phase-3	V.8 Phase-3

(Note) For result codes 16 - 31, V.34 mode communication.

For 32 or later, refer to the table below.

<Communication result code list>

Result code (Communication result)	Communication report result column	Communication interruption content
0 – 31	Refer to the previous table.	Depends on the communication disconnection position. For 16 or later, V.34 mode communication.
33	Busy	The calling side cannot connect the line with the other party.
34	Cancel	When a communication interruption command is delivered during transmission or reception, <Send/Receive/Poll/Bulletin> When the operation is interrupted by the stop key.
35	Power OFF	When the power is cur off during sending or receiving, <Send/Receive/Poll/Bulletin>
38	Reception memory over	When memory is over during reception, <Receive/Poll>. When printing cannot be performed during reception due to inhibition of proxy reception, <Receive/Poll>
42	Reception length over	When the received data length of one page exceeds the range during reception, <Receive/Poll>
44	Document error	When a document jam occurs during direct transmission, <Send>
46	No response from the other party	When the FAX signal from the other party is not detected within T1 time, <Send/Poll>
48	OK	Communication normal end
49	The other party has no polling function.	When the called side has no polling function in polling reception, <Poll> When the called side has no transmission data, <Bulletin>
50	Polling is not accepted.	When DCN is received for DTC in polling reception, <Poll> When there is no transmission data in polling transmission, <Bulletin>
51	Polling allow number discrepancy	When the allow number does not coincide in polling transmission, <Bulletin> When the system number does not coincide in polling transmission, <Bulletin>
56	Interface not accepted	1) When DCN is received for NSS in transmission of the relay instruction, <Send> 2) When a receiving station number that is not registered is instructed in reception of the relay instruction, <Receive> 3) When F code relay instruction is received during F code relay broadcasting, <Receive>
59	The other party has no function of F code bulletin board.	When the other party machine does not have DIS bit 47 (Selective polling function) in F code polling (ringing), <Poll>
60	F code polling is not accepted.	When DCN is received for SEP in F code polling (ringing), <Poll> When there is no transmission data for SEP in bulletin board, <Bulletin>
61	F code bulletin board number discrepancy	When the sub address (bulletin board number (SEP)) does not coincide in bulletin board, <Bulletin>

Result code (Communication result)	Communication report result column	Communication interruption content
62	F code bulletin board password discrepancy	When the pass code (PWD) does not coincide in bulletin board, <Bulletin>
63	The other party has no function of F code.	When the other party machine does not have DIS bit 49 (sub address capacity) in F code transmission, <Send>. Check that the other party machine conforms to F code.
64	F code is not accepted.	When F code is transmitted, <Send> 1) When DCN is received for SUB, check the BOX number. 2) When DCN is received for SID, check BOX number and the pass code. When F code is received, <Receive> When the F code relay broadcast function or the F code confidential reception function is inhibited with soft switches.
67	F code password discrepancy	When the pass code (SID) does not coincide in F code reception, <Receive>
68	BOX NO. NG	When a BOX number that is not registered is instructed (SUB discrepancy) in F code reception, <Receive>
69	Memory over	Memory over in quick online sending

- When communication result is OK, the communication result sub code 1 and sub code 2 are 0000.
- < > indicates the communication means. <Send>, send; <Receive>, receive; <Poll>, polling; <Bulletin>, bulletin board

The status code from the modem in V.34 mode is indicated with the communication result sub code 1 (top 2 digits). However, the communication sub code 1 is 00 in communication other than V.34 mode.

<Communication result sub code>

Result code 2	Communication interruption content	Transmission/ Reception
02	EOL time over	Reception
03	Carrier detection time over	Reception
06	Memory image decoding error	Reception
07	Memory image decoding error	Transmission
08	Time up between frames in phase C	Transmission/ Reception
11	Polarity reversion detection	Reception
12	Invalid command reception	Reception
13	Time over (1min timer/6sec timer)	Reception
14	PUT error	Reception
15	In V.34 mode, time up is generated when shifting from Primary to Control.	Reception
16	In V.34 mode, time up is generated when shifting from Control to Primary.	Reception
20	Polarity reversion detection	Transmission
21	Invalid command reception	Transmission
22	Fall back retry number over	Transmission
23	Resend over of the number of times of command retry	Transmission
24	Time over (T5 timer)	Transmission
25	Time over (T5 timer) in V.34 mode	Transmission
26	Time over occurrence during shift from Primary to Control in V.34 mode	Transmission
28	Modem chip answering NG	Transmission/ Reception

3. List of buzzer sounds in case of FAX abnormality

– : Long sound • : Single sound 3: ☐ Pause

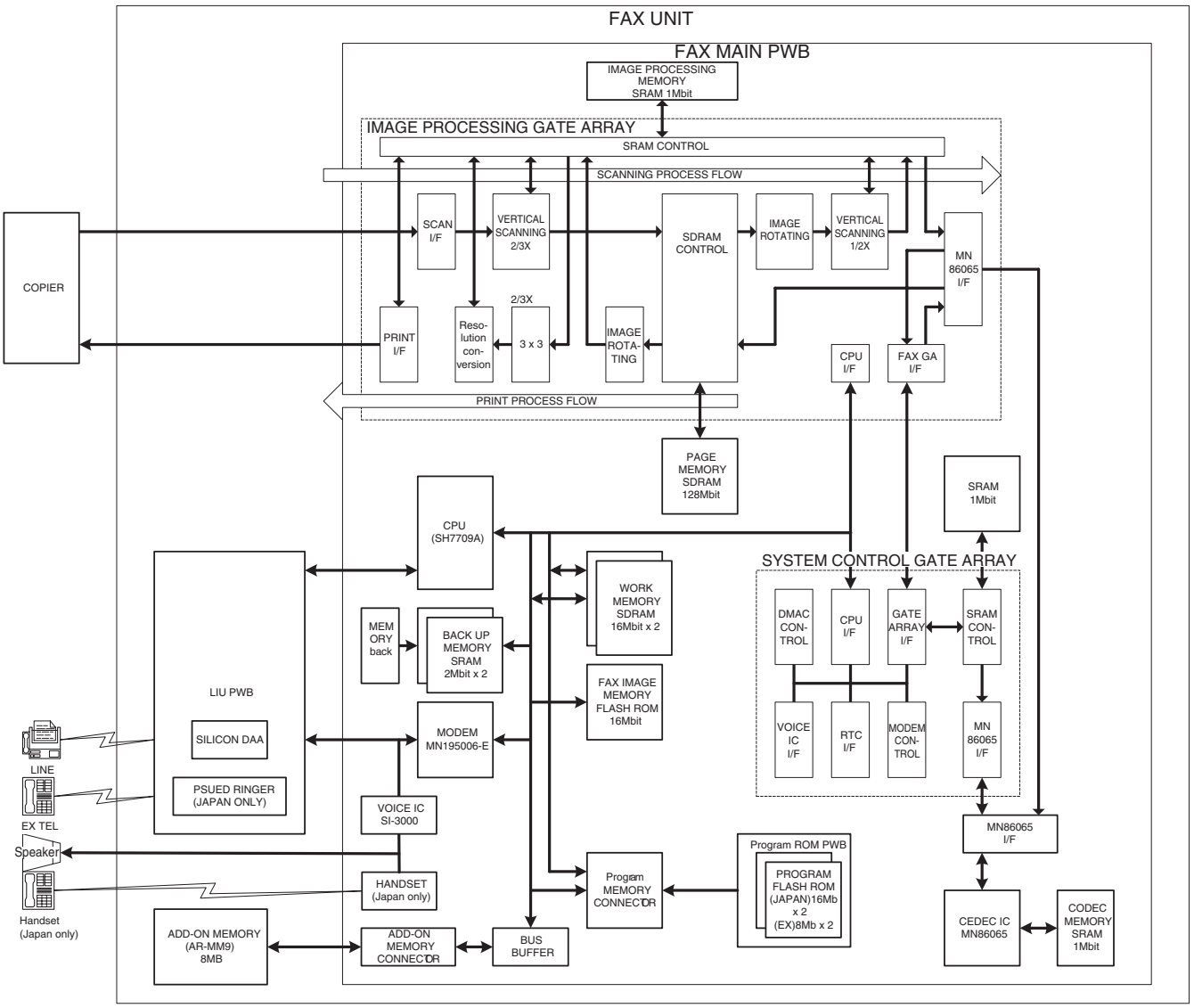
Example: In case of TEL/LIU connection abnormality
{{– • •••• } repeats {Pee • pi • pause • pi • pi • pi • pi}.

Beep sound pattern	Information content	Detail	Trouble content
– • • •	Expanded memory connection abnormality	Expanded memory insertion abnormality	Expanded memory reinsertion
– • • • •	Internal DMA transfer abnormality	Internal DMA transfer operation abnormality	PWB solder trouble, PWB parts trouble
– • • • •	TEL/LIU PWB connection abnormality	TEL/LIU PWB is not connected to the main PWB.	
– • • •	Program ROM (main section) writing not completed	Program ROM (main section) data abnormality	Download retry
– • • • •	Program ROM (font section) writing not completed	Program ROM (font section) data abnormality	Download retry
– • • • •	Work DRAM (IC13, 14) abnormality	Work DRAM abnormality	IC13, 14: PWB solder trouble, PWB parts trouble
– • • • • •	SRAM (IC41) abnormality 1		IC41: PWB solder trouble, PWB parts trouble
– • • • • • •	SRAM (IC41) abnormality 2		IC41: PWB solder trouble, PWB parts trouble
– • – –	MCU upload no responding	MCU PWB does not respond.	MCU PWB - main PWB connection
– • • –	System abnormality 1	Various internal operation abnormality	PWB solder trouble, PWB parts trouble
– • • • –	System abnormality 2	Various internal operation abnormality	PWB solder trouble, PWB parts trouble

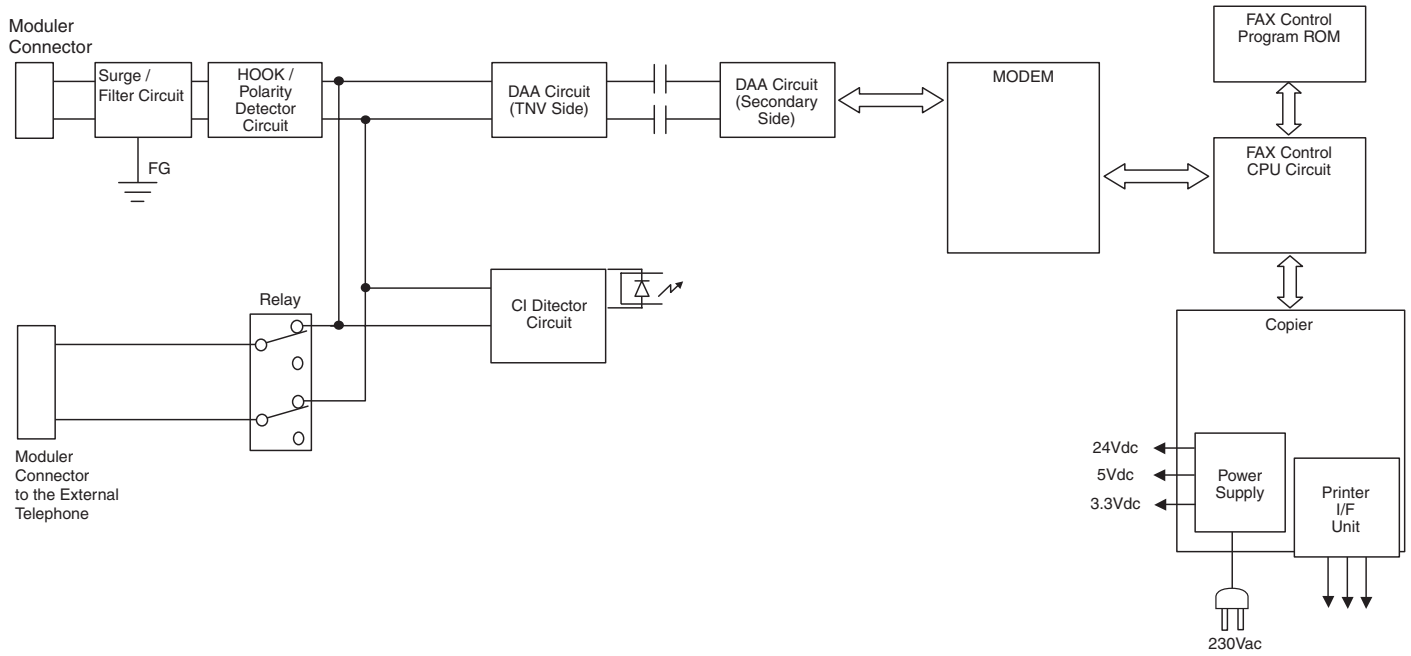
[11] ELECTRICAL SECTION

1. Block diagram

A. Main block diagram

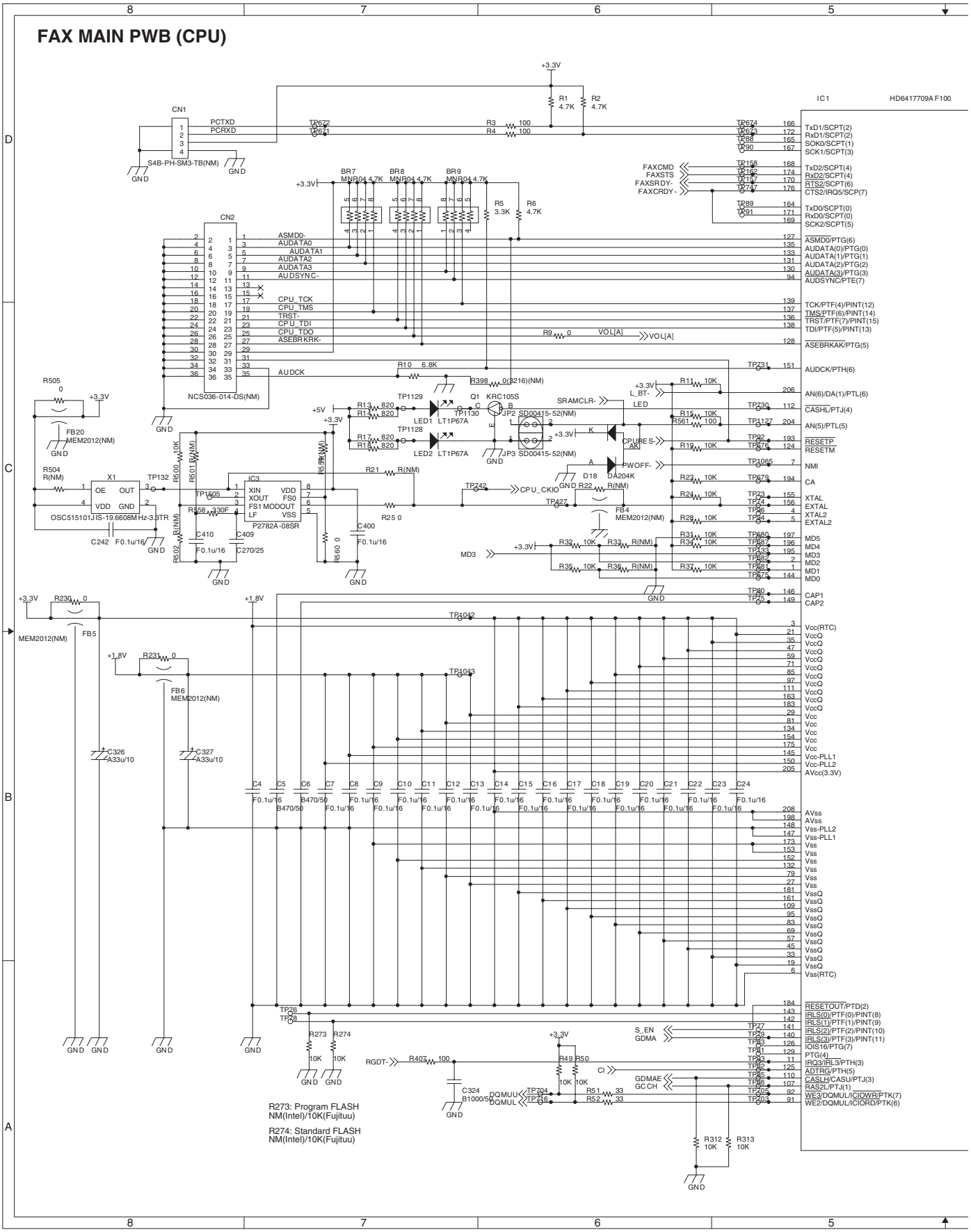


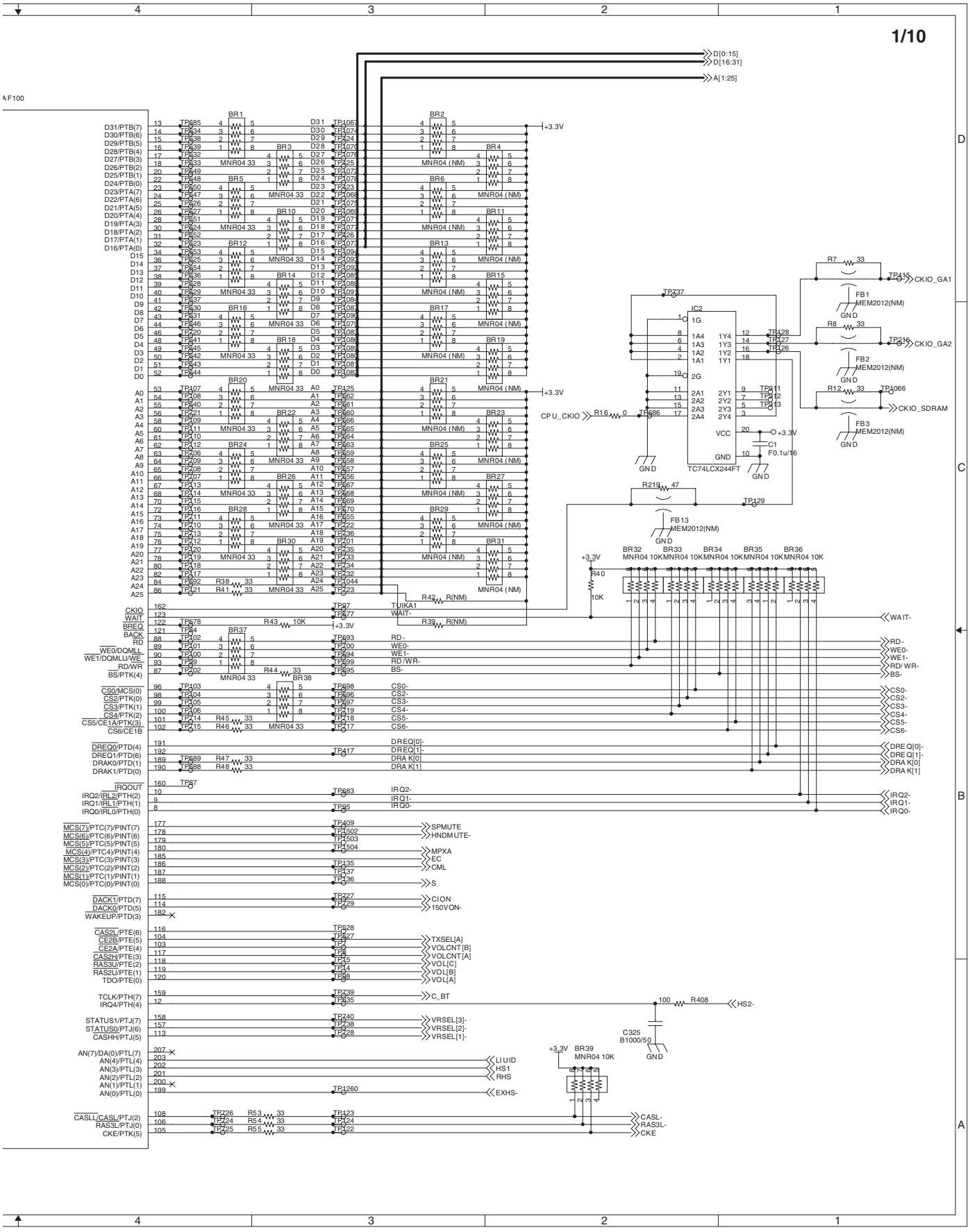
B. TEL/LIU PWB block diagram



2. Circuit diagram

A. FAX MAIN PWB




1/10
D[0:15]
D[16:31]
A[1:25]
AF100
D31/PTB(7)
D30/PTB(6)
D29/PTB(5)
D28/PTB(4)
D27/PTB(3)
D26/PTB(2)
D25/PTB(1)
D24/PTB(0)
D23/PTA(7)
D22/PTA(6)
D21/PTA(5)
D20/PTA(4)
D19/PTA(3)
D18/PTA(2)
D17/PTA(1)
D16/PTA(0)
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
+3.3V
CPU_CKIO
R16
0
TP686
IC2
TC74LCX244FT
1G
2G
1A4
1A3
1A2
1A1
2A1
2A2
2A3
2A4
1Y4
1Y3
1Y2
1Y1
2Y1
2Y2
2Y3
2Y4
VCC
GND
C1
F0.1u/16
R7
33
TP415
CKIO_GA1
FB1
MEM2012(NM)
R8
TP216
CKIO_GA2
FB2
R12
TP1066
CKIO_SDRAM
FB3
TP737
TP128
TP127
TP126
TP211
TP212
TP213
R219
47
TP129
FB13
CKIO
WAIT
BREQ
BACK
RD
WE0/DQMLL
WE1/DQMLU/WE
RD/WR
BS/PTK(4)
CS0/MCS(0)
CS2/PTK(0)
CS3/PTK(1)
CS4/PTK(2)
CS5/CE1A/PTK(3)
CS6/CE1B
DREQ0/PTD(4)
DREQ1/PTD(6)
DRAK0/PTD(1)
DRAK1/PTD(0)
IRQOUT
IRQ2/IRL2/PTH(2)
IRQ1/IRL1/PTH(1)
IRQ0/IRL0/PTH(0)
MCS(7)/PTC(7)/PINT(7)
MCS(6)/PTC(6)/PINT(6)
MCS(5)/PTC(5)/PINT(5)
MCS(4)/PTC4)/PINT(4)
MCS(3)/PTC(3)/PINT(3)
MCS(2)/PTC(2)/PINT(2)
MCS(1)/PTC(1)/PINT(1)
MCS(0)/PTC(0)/PINT(0)
DACK1/PTD(7)
DACK0/PTD(5)
WAKEUP/PTD(3)
CAS2L/PTE(6)
CE2B/PTE(5)
CE2A/PTE(4)
CAS2H/PTE(3)
RAS3U/PTE(2)
RAS2U/PTE(1)
TDO/PTE(0)
TCLK/PTH(7)
IRQ4/PTH(4)
STATUS1/PTJ(7)
STATUS0/PTJ(6)
CASHH/PTJ(5)
AN(7)/DA(0)/PTL(7)
AN(4)/PTL(4)
AN(3)/PTL(3)
AN(2)/PTL(2)
AN(1)/PTL(1)
AN(0)/PTL(0)
CASLL/CASL/PTJ(2)
RAS3L/PTJ(0)
CKE/PTK(5)
WAIT-
RD-
WE0-
WE1-
RD/WR-
BS-
CS0-
CS2-
CS3-
CS4-
CS5-
CS6-
DREQ[0]-
DREQ[1]-
DRAK[0]
DRAK[1]
IRQ2-
IRQ1-
IRQ0-
SPMUTE
HNDMUTE-
MPXA
EC
CML
S
CION
150VON-
TXSEL[A]
VOLCNT[B]
VOLCNT[A]
VOL[C]
VOL[B]
VOL[A]
C_BT
HS2-
VRSEL[3]-
VRSEL[2]-
VRSEL[1]-
LIUID
HS1
RHS
EXHS-
CASL-
RAS3L-
CKE
R40
10K
C325
B1000/50
R408
100
R39
R(NM)
R42
R(NM)
TUIKA1
R43
10K
R44
33
R45
33
R46
33
R47
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R48
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R41
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R38
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BR34
BR35
BR36
BR37
BR38
BR39
MNR04 33
MNR04 (NM)
MNR04 10K
TP685
TP684
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TP639
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TP1203
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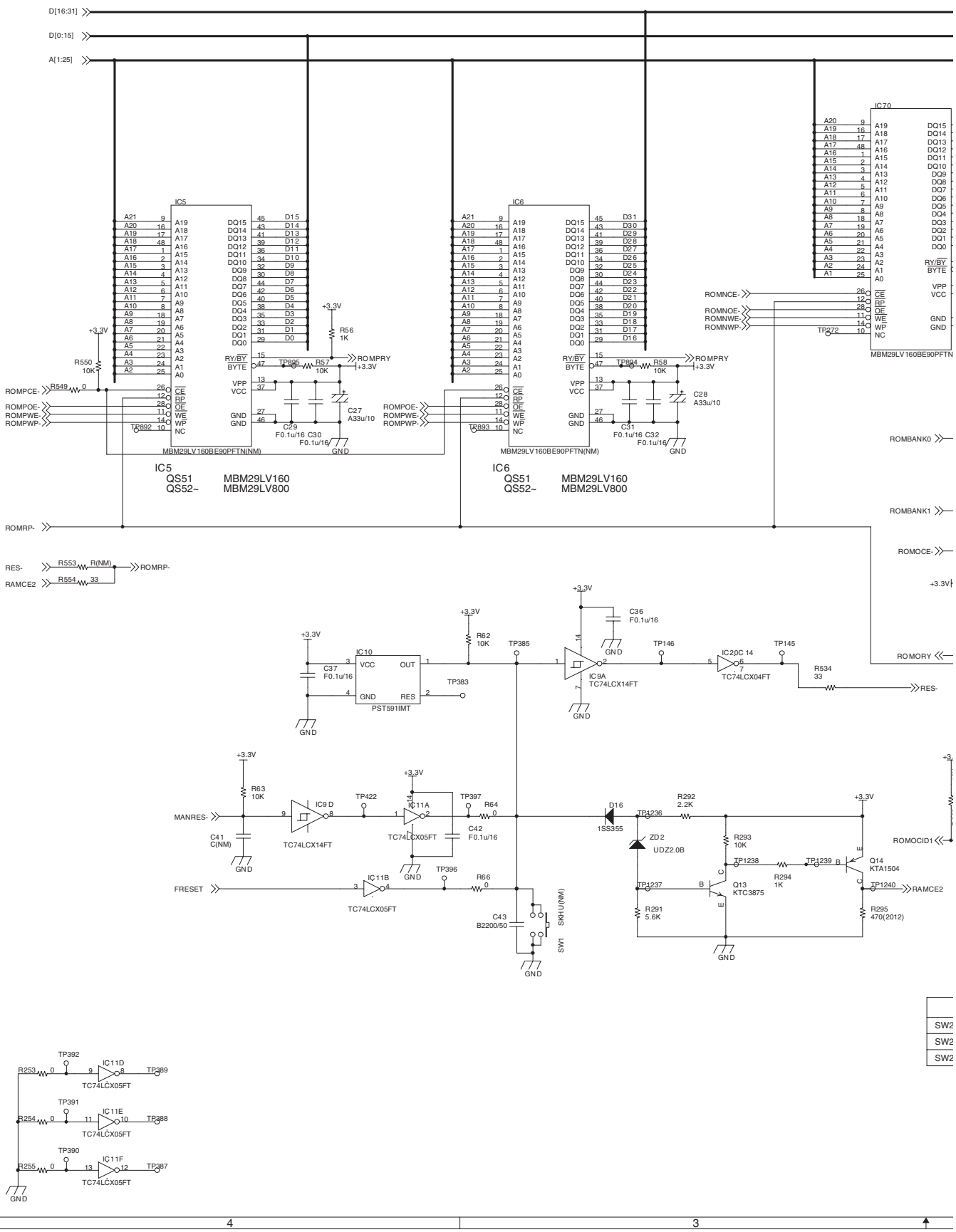
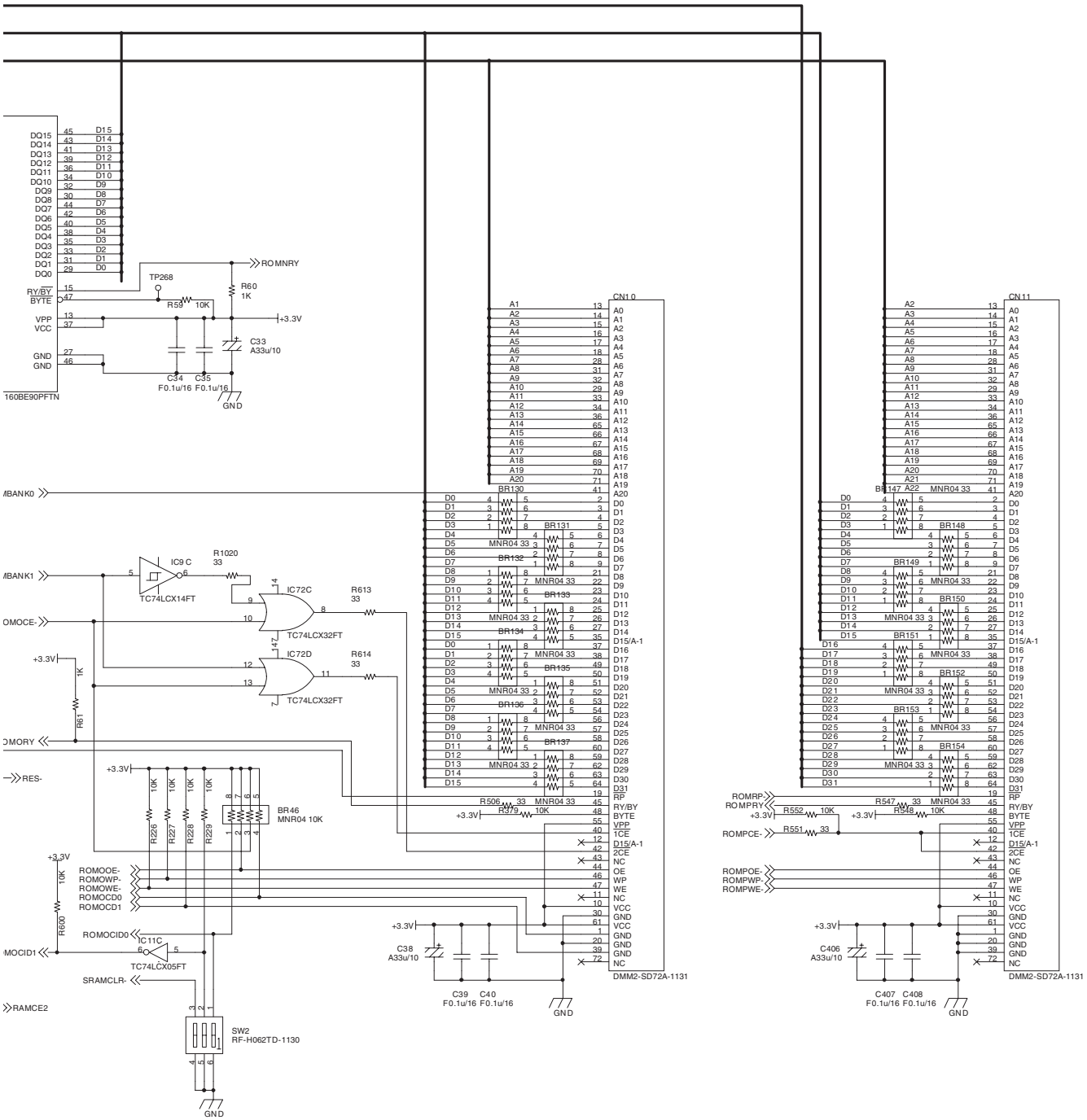
TP1205
TP1206
TP1207
TP1208
TP1209
TP1210
TP1211
TP1212
TP1213
TP1214
TP1215
TP1216
TP1217
TP1218
TP1219
TP1220
TP1221
TP1222
TP1223
TP1224
TP1225
TP1226
A
B
C
D

FAX MAIN PWB (FLASH)

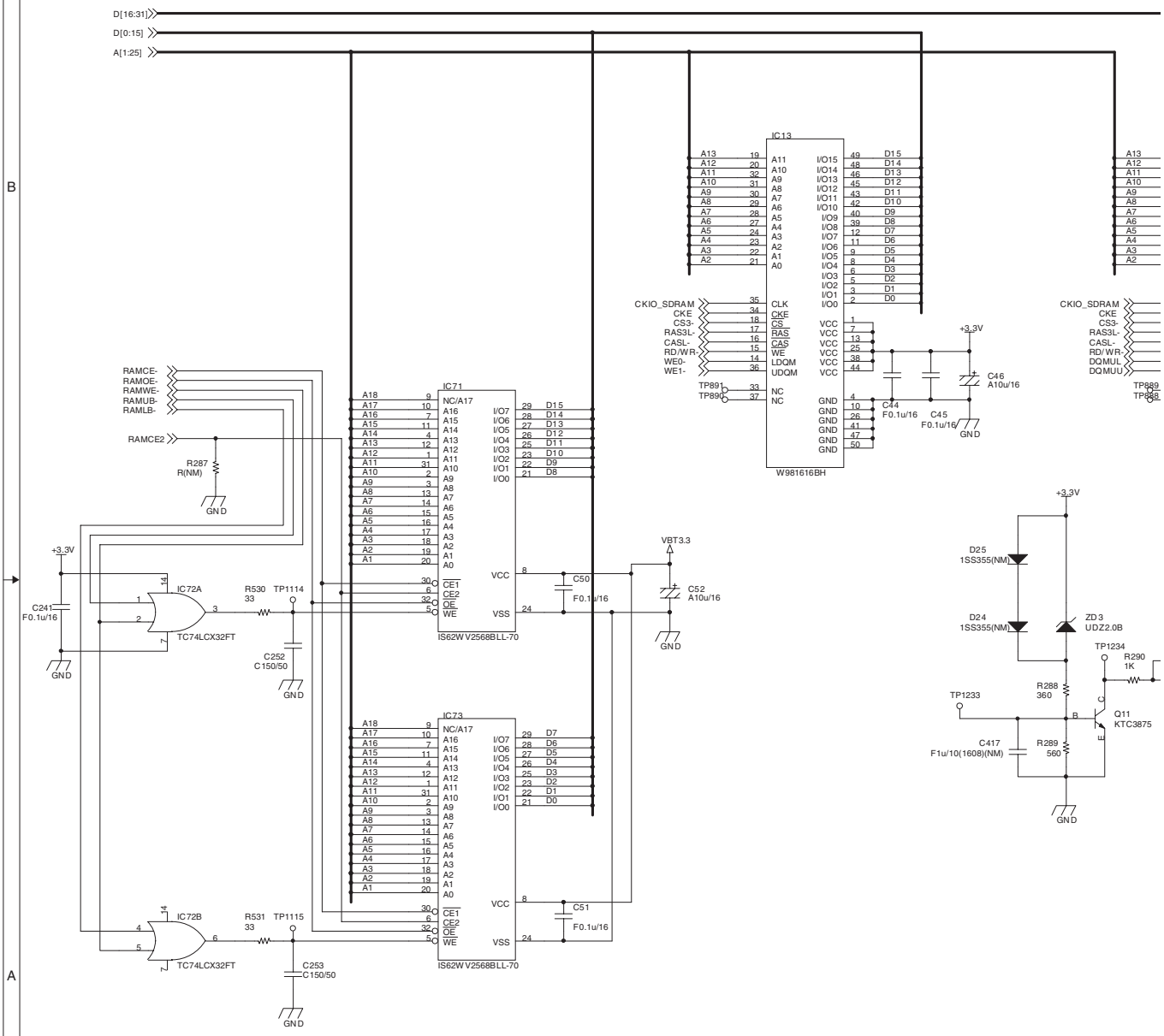


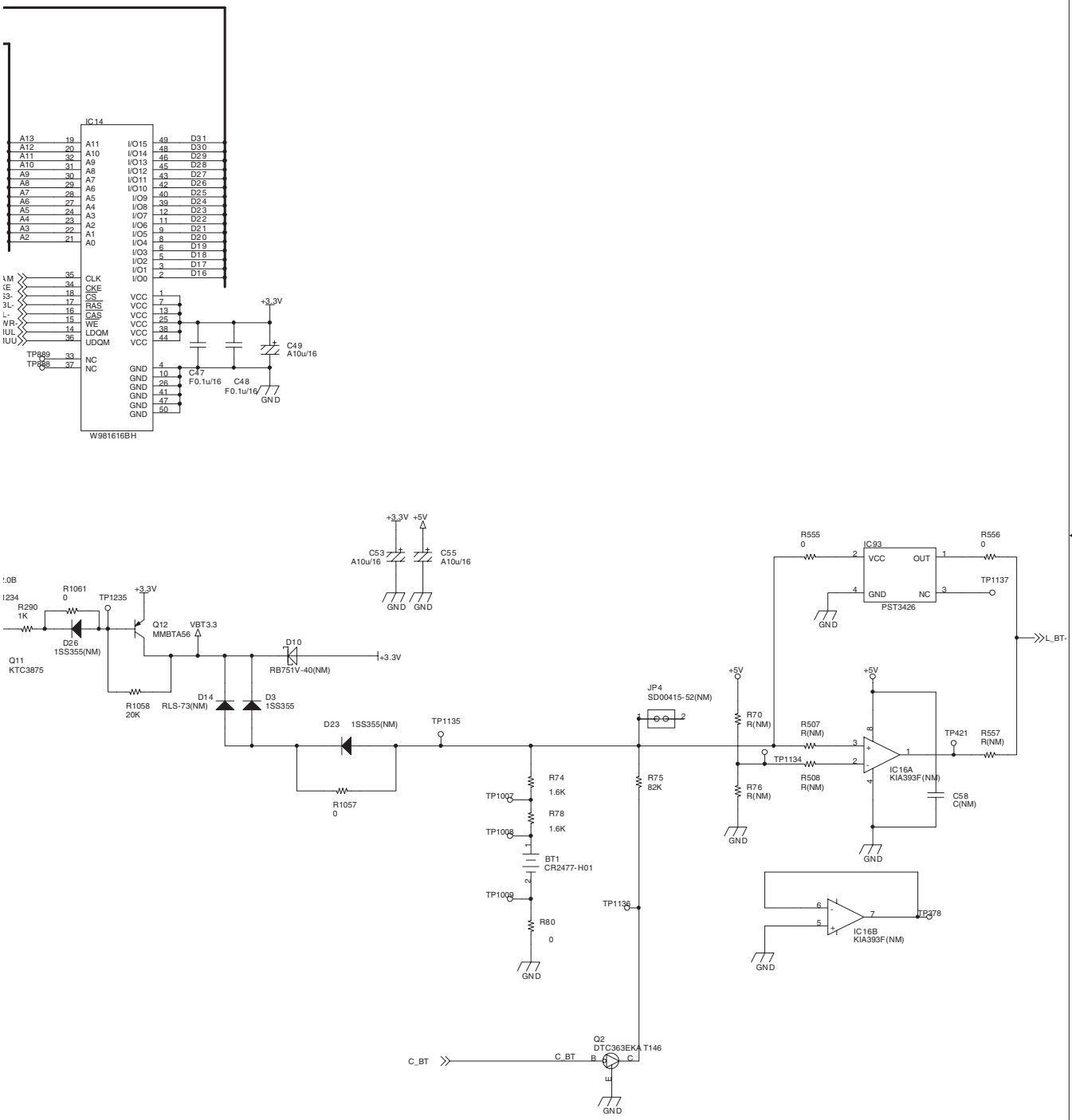


	Normally operation	Download execution (OP→STD)	Download creation (STD→OP)	SRAM clear
SW2-1	×	×	○	×
SW2-2	×	○×	×	
SW2-3	×	×	×	○

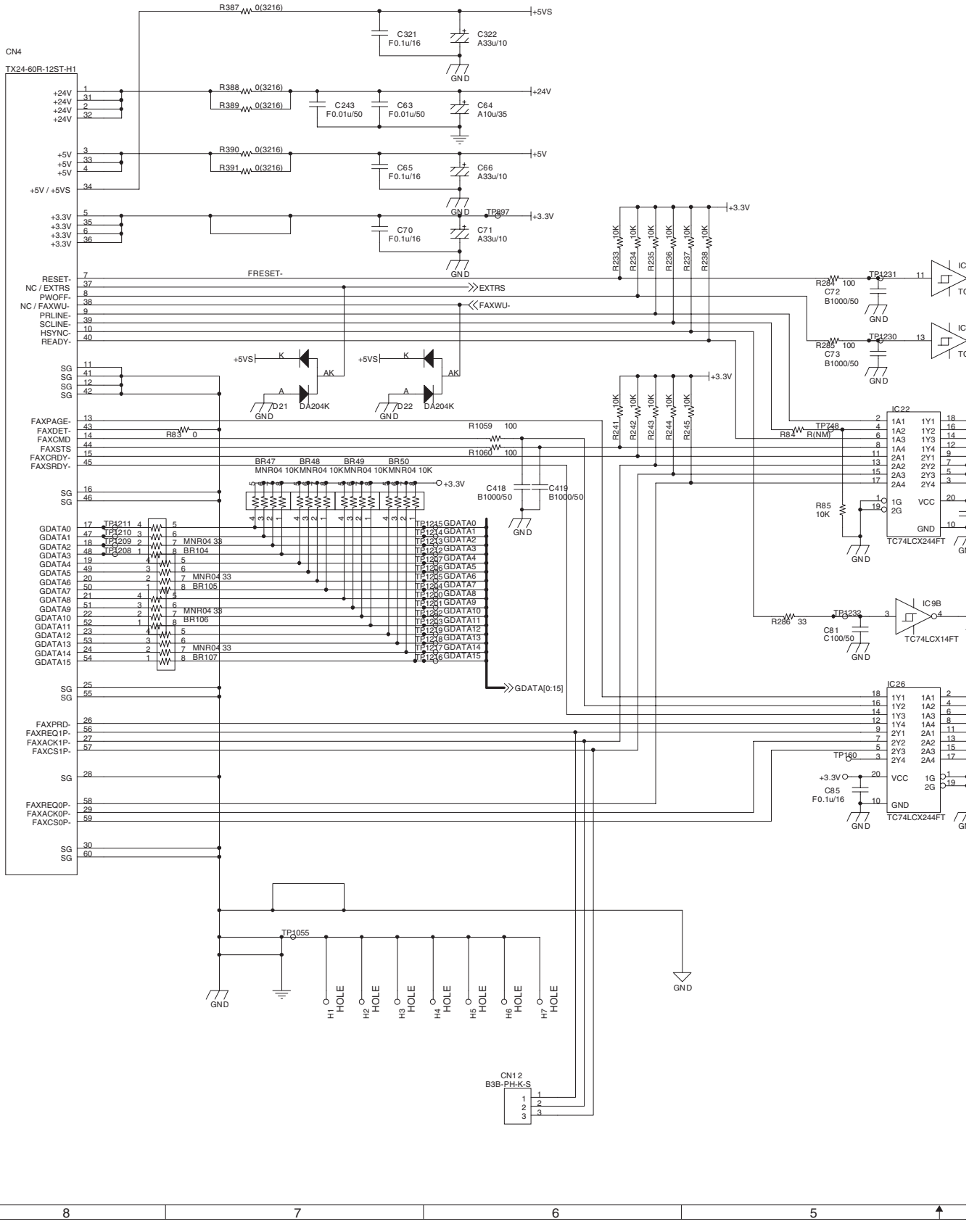
○: With jumper
×: No jumper

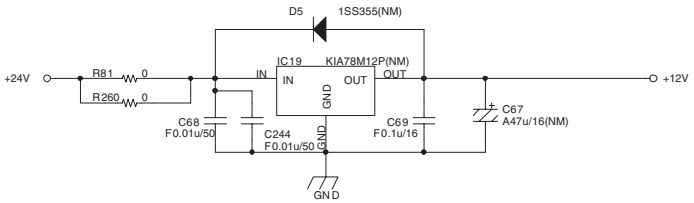
FAX MAIN PWB (SRAM)



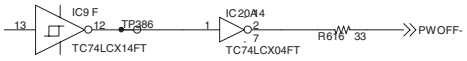

IC14
W981616BH
C47 F0.1u/16
C48 F0.1u/16
C49 A10u/16
C53 A10u/16
C55 A10u/16
R1061 0
R290 1K
R1058 20K
R1057 0
R74 1.6K
R78 1.6K
R80 0
R75 82K
R70 R(NM)
R76 R(NM)
R507 R(NM)
R508 R(NM)
R555 0
R556 0
R557 R(NM)
C58 C(NM)
IC93 PST3426
IC16A KIA393F(NM)
IC16B KIA393F(NM)
JP4 SD00415-52(NM)
BT1 CR2477-H01
Q12 MMBTA56
Q11 KTC3875
Q2 DTC363EKA T146
D26 1SS355(NM)
D10 RB751V-40(NM)
D14 RLS-73(NM)
D3 1SS355
D23 1SS355(NM)
TP1235
TP1135
TP1134
TP1136
TP1137
TP421
TP378
TP1007
TP1008
TP1009
TP889
TP888
VBT3.3
+3.3V
+5V
GND
L_BT-
C_BT

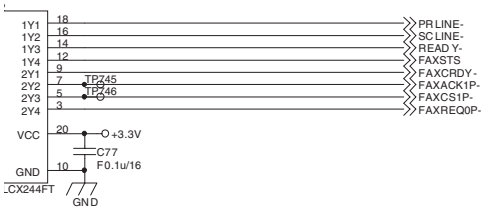
FAX MAIN PWB (MCU I/F)

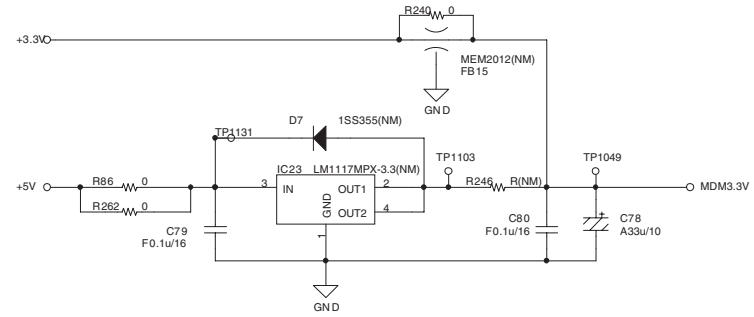


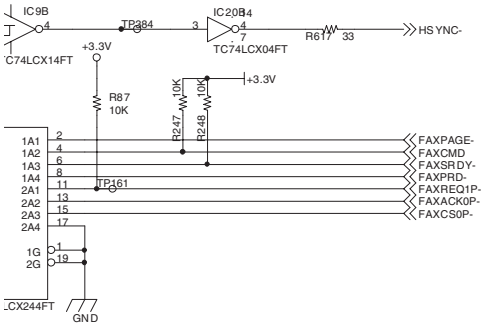

D5
1SS355(NM)
+24V
R81
0
R260
0
IC19
KIA78M12P(NM)
IN
OUT
GND
+12V
C68
F0.01u/50
C244
F0.01u/50
C69
F0.1u/16
C67
A47u/16(NM)
GND

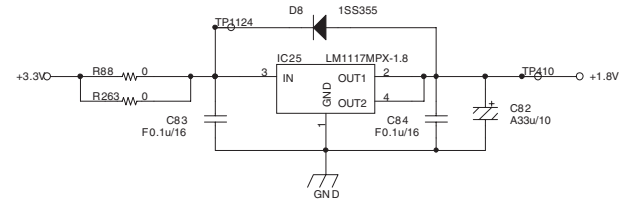
IC9E
11
10
TP395
R615
33
TC74LCX14FT
FRESET


IC9F
13
12
TP386
TC74LCX14FT
IC20A
1
2
7
TC74LCX04FT
R616
33
PWOFF-

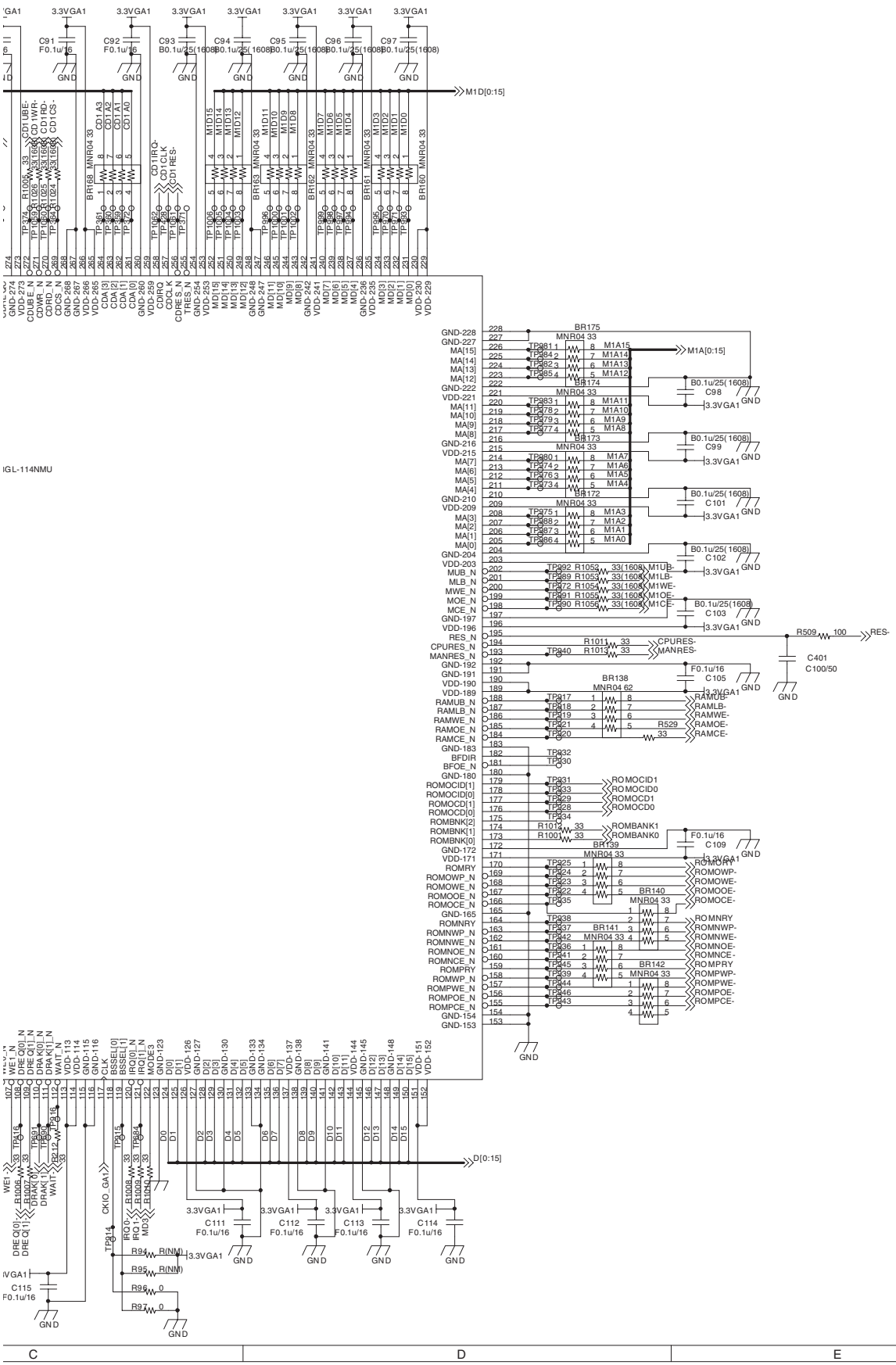

1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
18
16
14
12
9
7
5
3
TP245
TP246
PR LINE-
SC LINE-
READ Y-
FAXSTS
FAXCRDY-
FAXACK1P-
FAXCS1P-
FAXREQ0P-
VCC
20
+3.3V
C77
F0.1u/16
GND
10
LCX244FT
GND


R240
0
+3.3V
MEM2012(NM)
FB15
GND
D7
1SS355(NM)
TP1131
+5V
R86
0
R262
0
IC23
LM1117MPX-3.3(NM)
IN
OUT1
OUT2
GND
TP1103
R246
R(NM)
TP1049
MDM3.3V
C79
F0.1u/16
C80
F0.1u/16
C78
A33u/10
GND

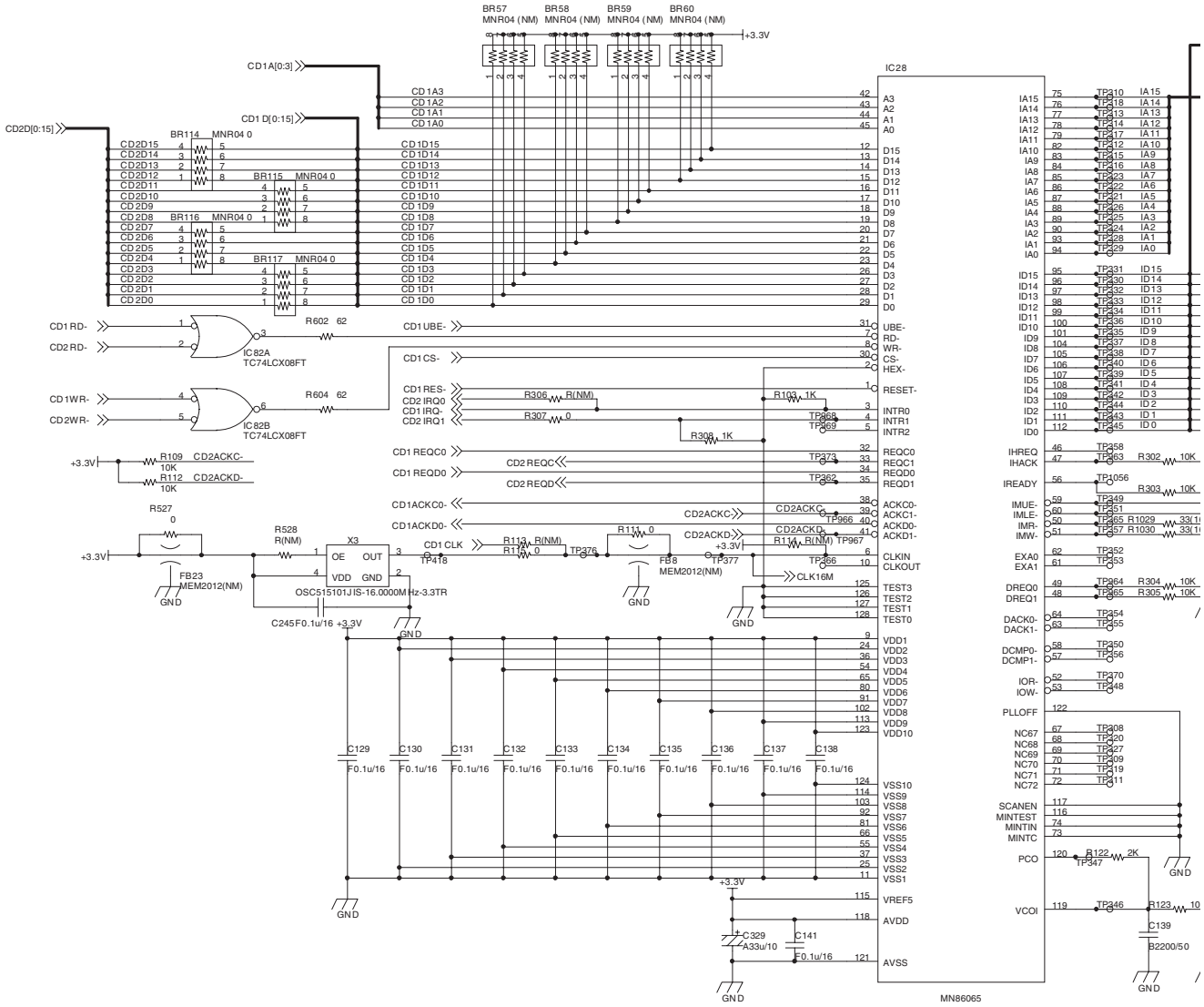

IC9B
4
TP384
3
IC20B
4
7
TC74LCX04FT
R617
33
HS YNC-
C74LCX14FT
+3.3V
R87
10K
R247
10K
R248
10K
+3.3V
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
2
4
6
8
11
13
15
17
TP161
FAXPAGE-
FAXCMD
FAXSRDY-
FAXPRD-
FAXREQ1P-
FAXACK0P-
FAXCS0P-
1G
2G
1
19
LCX244FT
GND

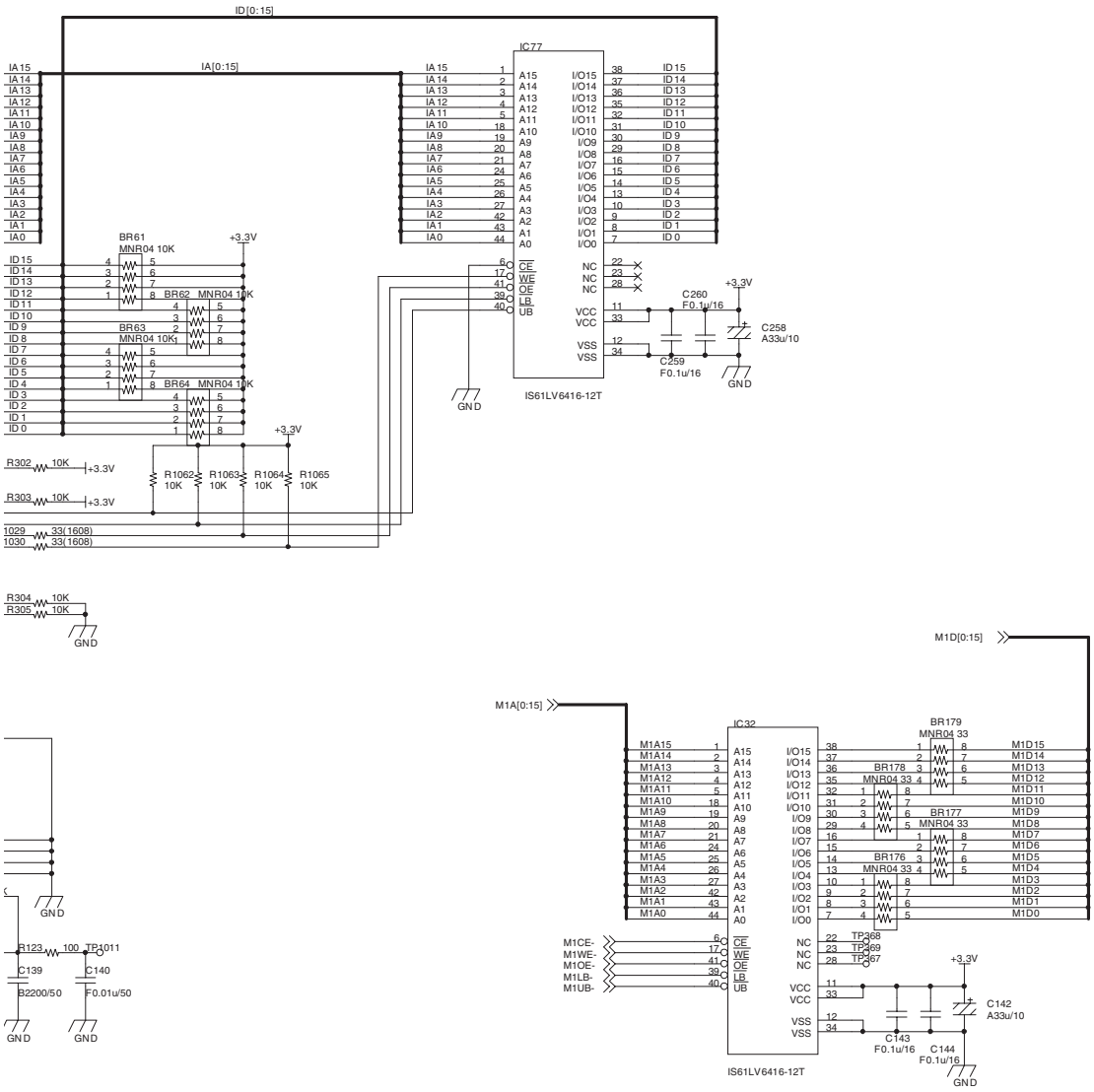

D8
1SS355
TP1124
+3.3V
R88
0
R263
0
IC25
LM1117MPX-1.8
IN
OUT1
OUT2
GND
TP410
+1.8V
C83
F0.1u/16
C84
F0.1u/16
C82
A33u/10
GND

FAX MAIN PWB (GA1)

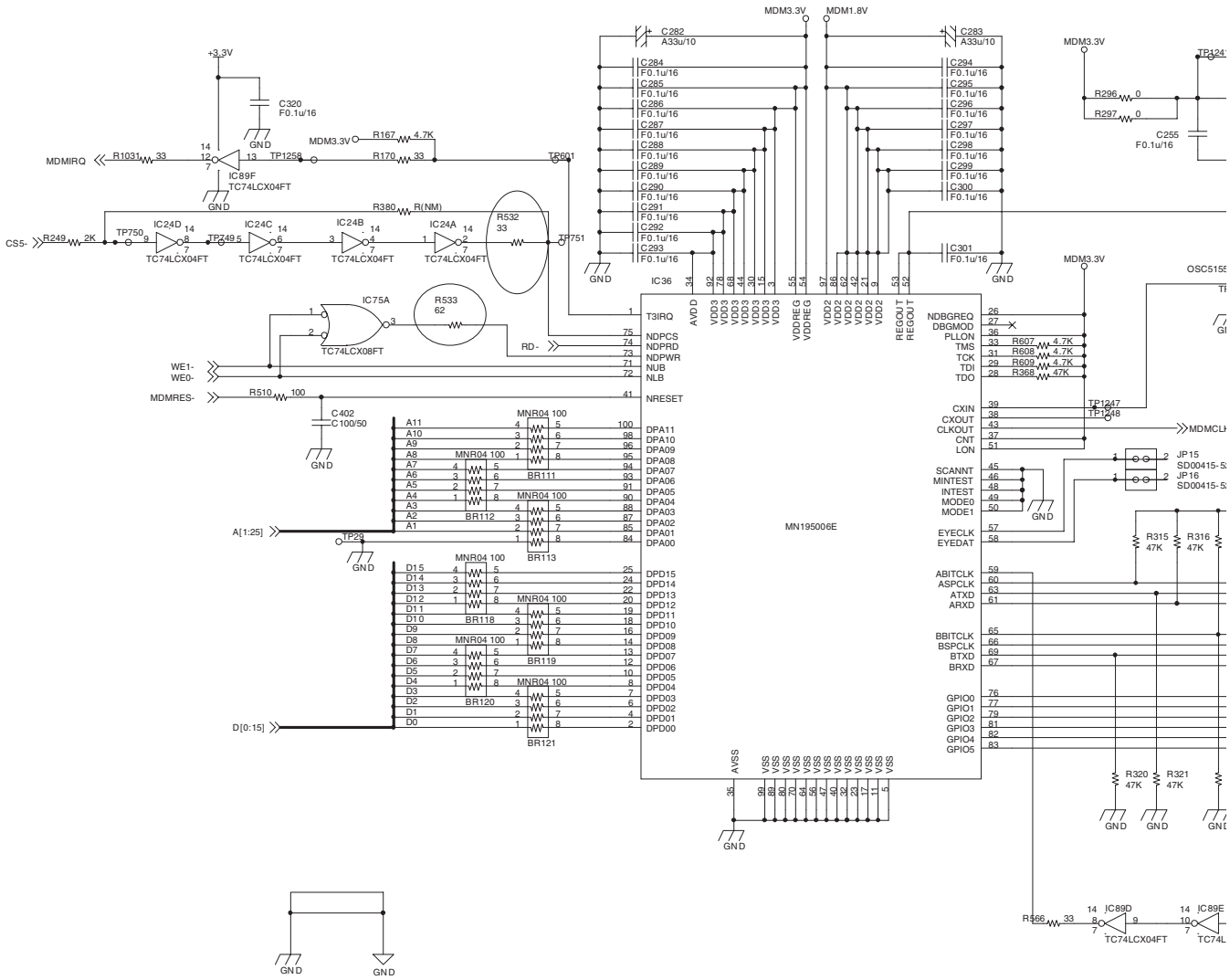


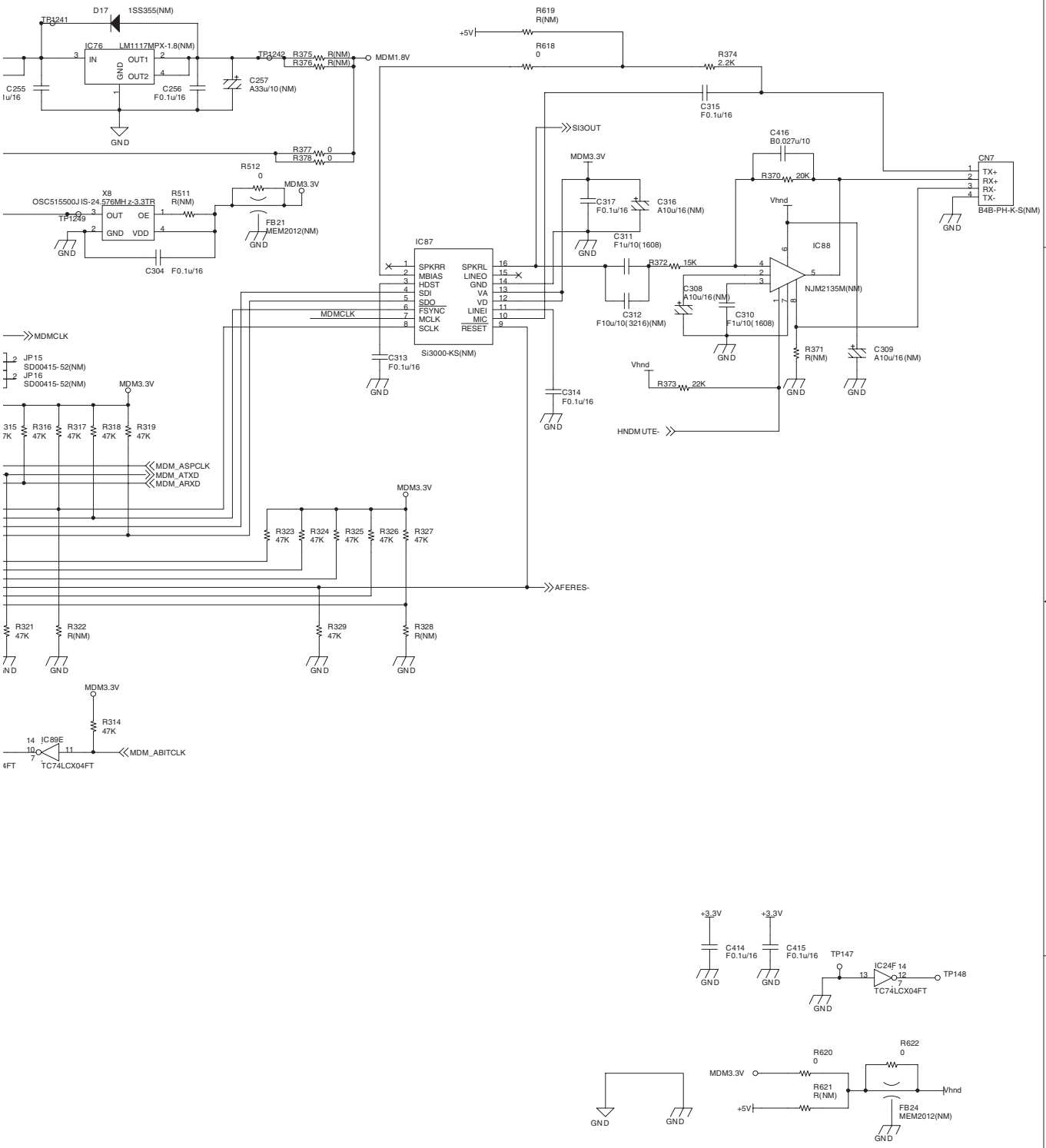
FAX MAIN PWB (GA1-CODEC)



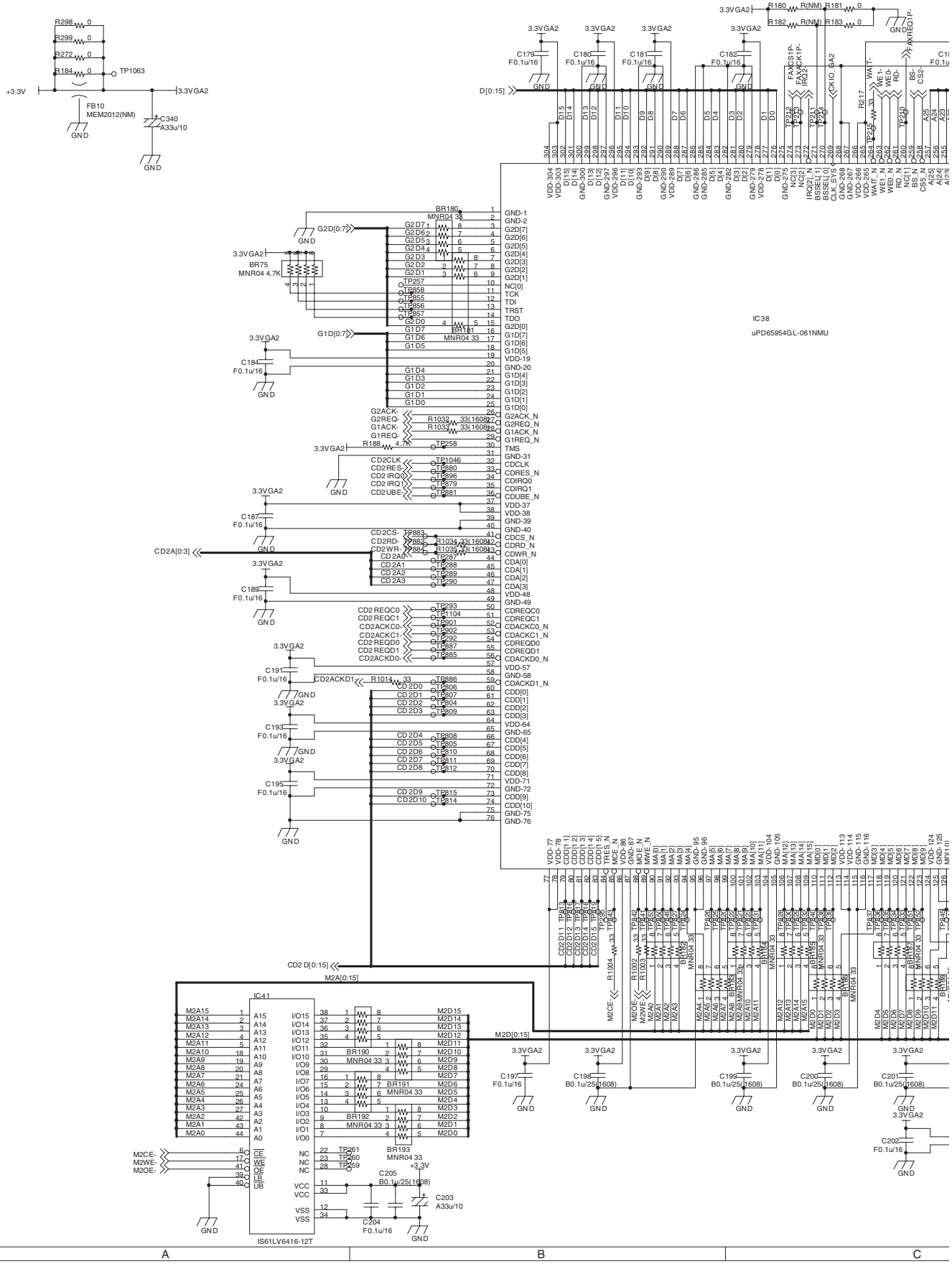

ID[0:15]
IA[0:15]
IC77
IS61LV6416-12T
BR61 MNR04 10K
BR62 MNR04 10K
BR63 MNR04 10K
BR64 MNR04 10K
+3.3V
GND
R302 10K
R303 10K
R304 10K
R305 10K
R1062 10K
R1063 10K
R1064 10K
R1065 10K
1029 33(1608)
1030 33(1608)
C260 F0.1u/16
C258 A33u/10
C259 F0.1u/16
M1A[0:15]
M1D[0:15]
IC32
IS61LV6416-12T
BR179 MNR04 33
BR178 MNR04 33
BR177 MNR04 33
BR176 MNR04 33
M1CE-
M1WE-
M1OE-
M1LB-
M1UB-
TP368
TP369
TP367
C142 A33u/10
C143 F0.1u/16
C144 F0.1u/16
R123 100 TP1011
C139 B2200/50
C140 F0.01u/50

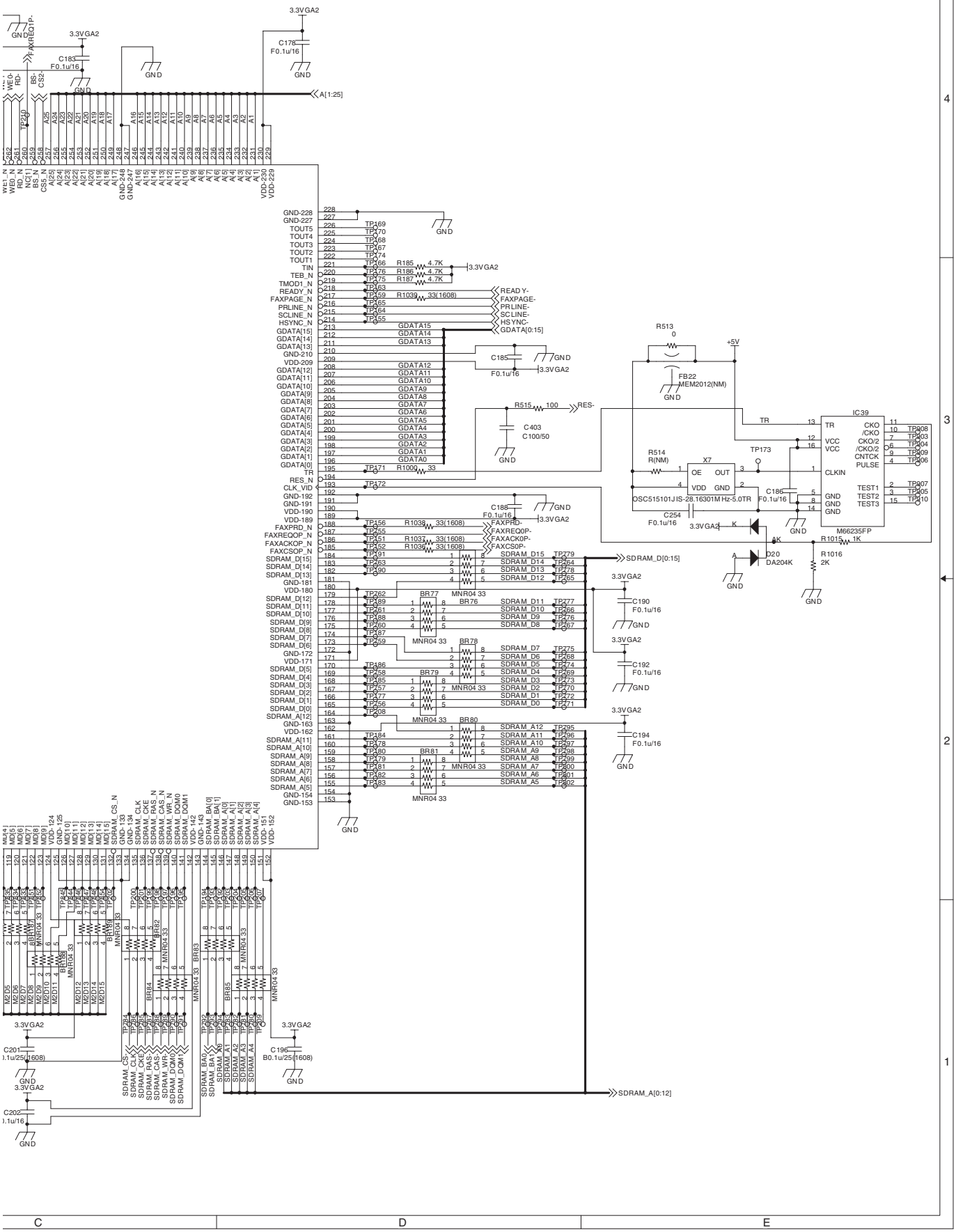
FAX MAIN PWB (MN195006E)



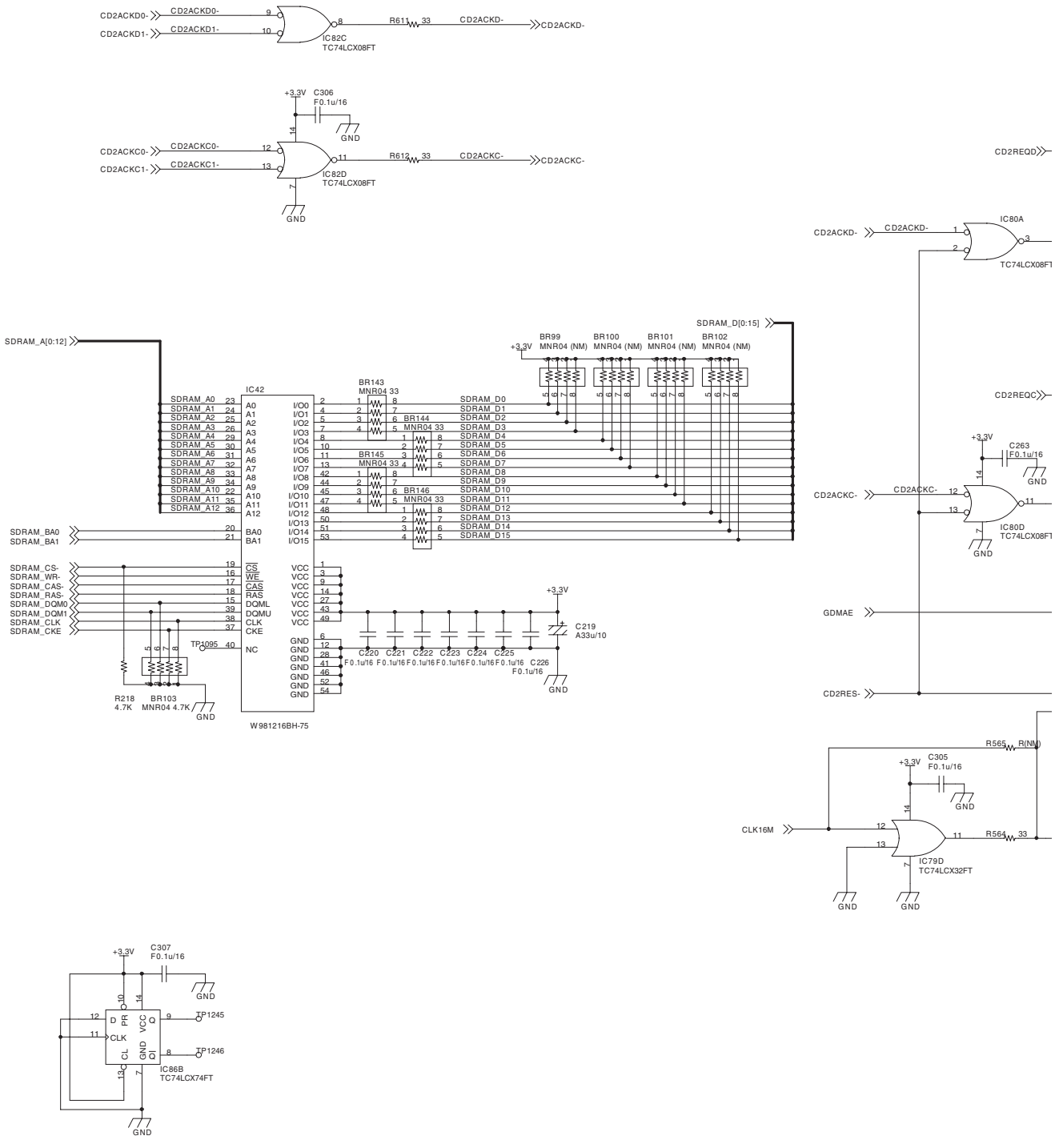

D17 1SS355(NM)
TP1241
IC76 LM1117MPX-1.8(NM)
IN OUT1 OUT2 GND
C255 1u/16
C256 F0.1u/16
C257 A33u/10(NM)
TP1242
R375 R(NM)
R376 R(NM)
MDM1.8V
R377 0
R378 0
R619 R(NM)
+5V
R618 0
R374 2.2K
C315 F0.1u/16
SI3OUT
C416 B0.027u/10
R370 20K
CN7
TX+ RX+ RX- TX-
B4B-PH-K-S(NM)
MDM3.3V
C317 F0.1u/16
C316 A10u/16(NM)
C311 F1u/10(1608)
Vhnd
IC88
NJM2135M(NM)
R372 15K
C308 A10u/16(NM)
C310 F1u/10(1608)
R371 R(NM)
C309 A10u/16(NM)
R373 22K
HNDMUTE-
R512 0
X8 OSC515500JIS-24.576MHz-3.3TR
OUT OE GND VDD
TP1249
R511 R(NM)
FB21 MEM2012(NM)
C304 F0.1u/16
IC87
SPKRR SPKRL MBIAS LINEO HDST GND SDI VA SDO VD FSYNC LINEI MCLK MIC SCLK RESET
SI3000-KS(NM)
MDMCLK
C313 F0.1u/16
C314 F0.1u/16
C312 F10u/10(3216)(NM)
JP15 SD00415-52(NM)
JP16 SD00415-52(NM)
R316 47K
R317 47K
R318 47K
R319 47K
MDM_ASPCLK
MDM_ATXD
MDM_ARXD
R323 47K
R324 47K
R325 47K
R326 47K
R327 47K
AFERES-
R321 47K
R322 R(NM)
R329 47K
R328 R(NM)
R314 47K
IC89E TC74LCX04FT
MDM_ABITCLK
+3.3V
C414 F0.1u/16
C415 F0.1u/16
TP147
IC24F TC74LCX04FT
TP148
R620 0
R621 R(NM)
R622 0
FB24 MEM2012(NM)
GND

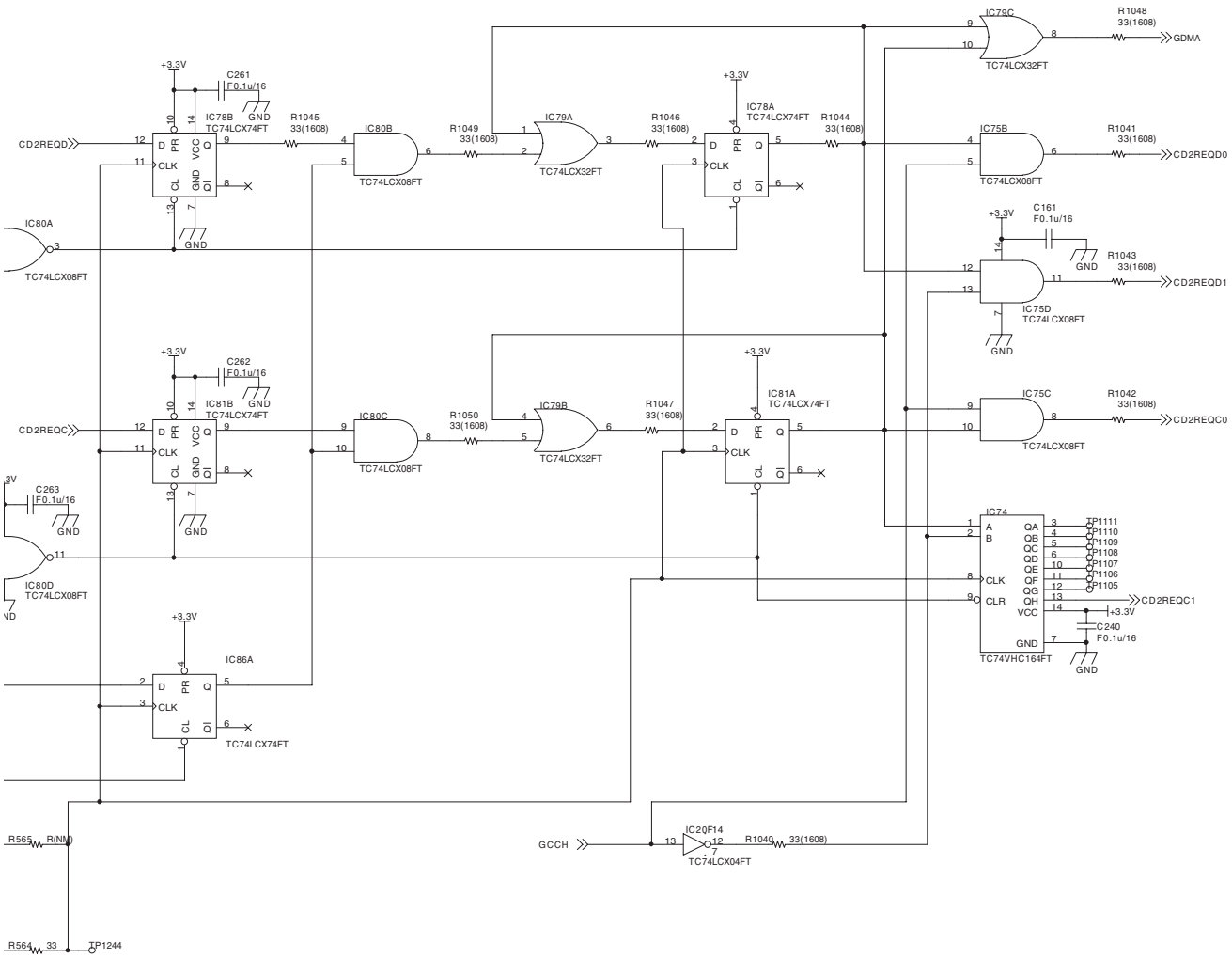
FAX MAIN PWB (GA2)



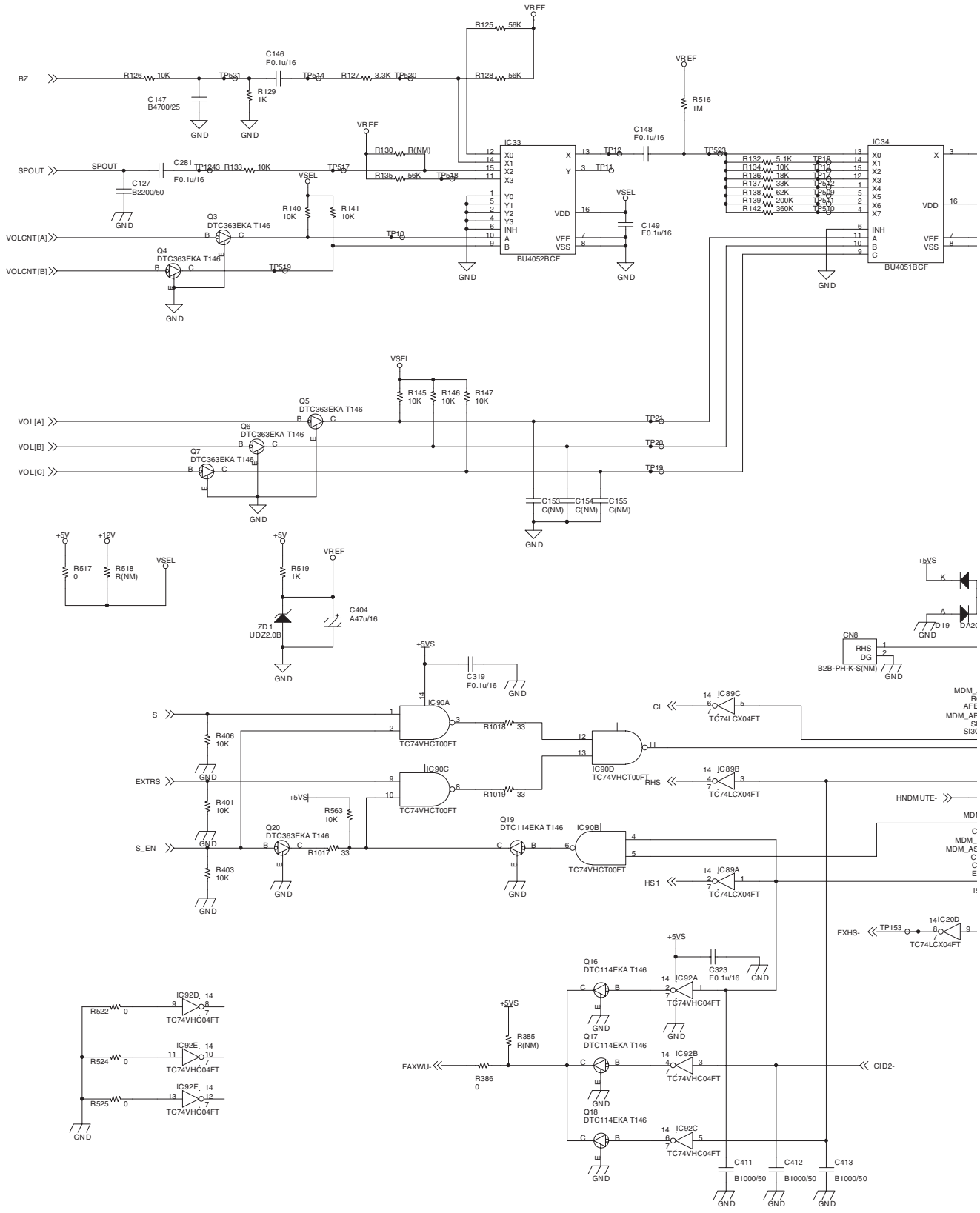


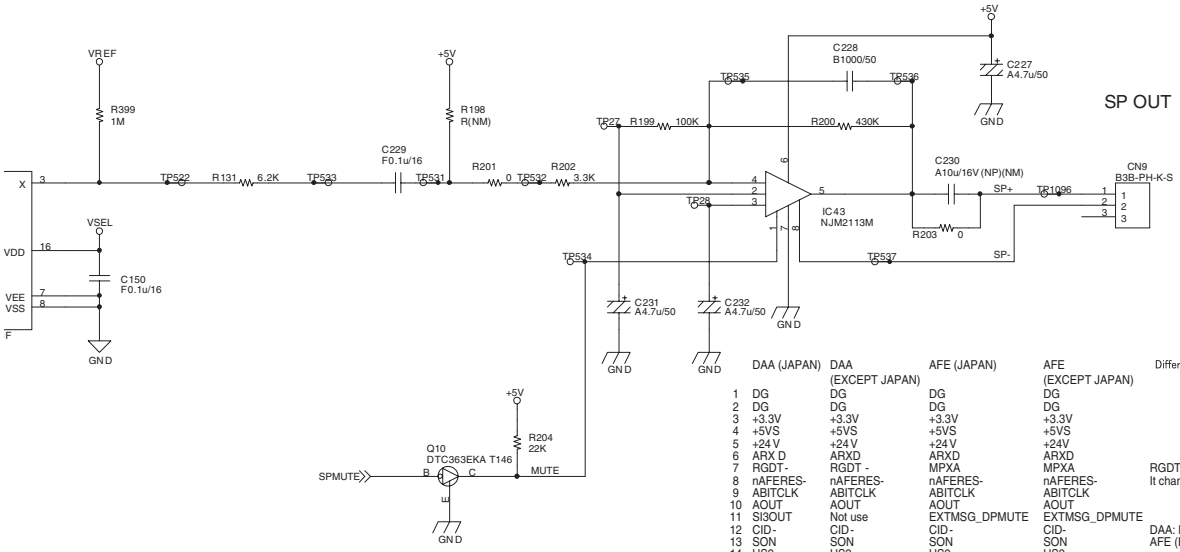
FAX MAIN PWB (GA2-CODEC)



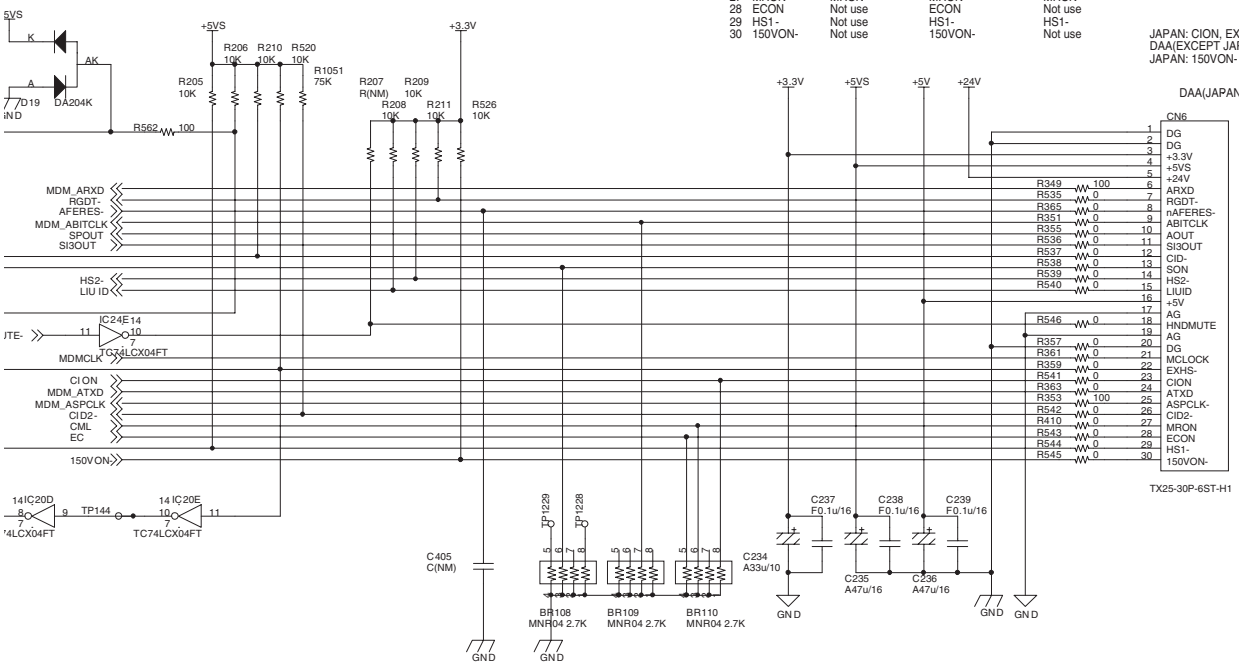

IC79C
TC74LCX32FT
R1048
33(1608)
GDMA
+3.3V
C261
F0.1u/16
IC78B
TC74LCX74FT
GND
R1045
33(1608)
CD2REQD
IC80B
TC74LCX08FT
R1049
33(1608)
IC79A
TC74LCX32FT
R1046
33(1608)
IC78A
TC74LCX74FT
R1044
33(1608)
IC75B
TC74LCX08FT
R1041
33(1608)
CD2REQD0
IC80A
TC74LCX08FT
C161
F0.1u/16
R1043
33(1608)
CD2REQD1
IC75D
TC74LCX08FT
C262
F0.1u/16
IC81B
TC74LCX74FT
CD2REQC
IC80C
TC74LCX08FT
R1050
33(1608)
IC79B
TC74LCX32FT
R1047
33(1608)
IC81A
TC74LCX74FT
IC75C
TC74LCX08FT
R1042
33(1608)
CD2REQC0
C263
F0.1u/16
IC80D
TC74LCX08FT
IC74
TC74VHC164FT
TP1111
TP1110
TP1109
TP1108
TP1107
TP1106
TP1105
CD2REQC1
C240
F0.1u/16
IC86A
TC74LCX74FT
GCCH
IC20F14
TC74LCX04FT
R1040
33(1608)
R565
R(NM)
R564
33
TP1244

FAX MAIN PWB (TEL/LIU IF)

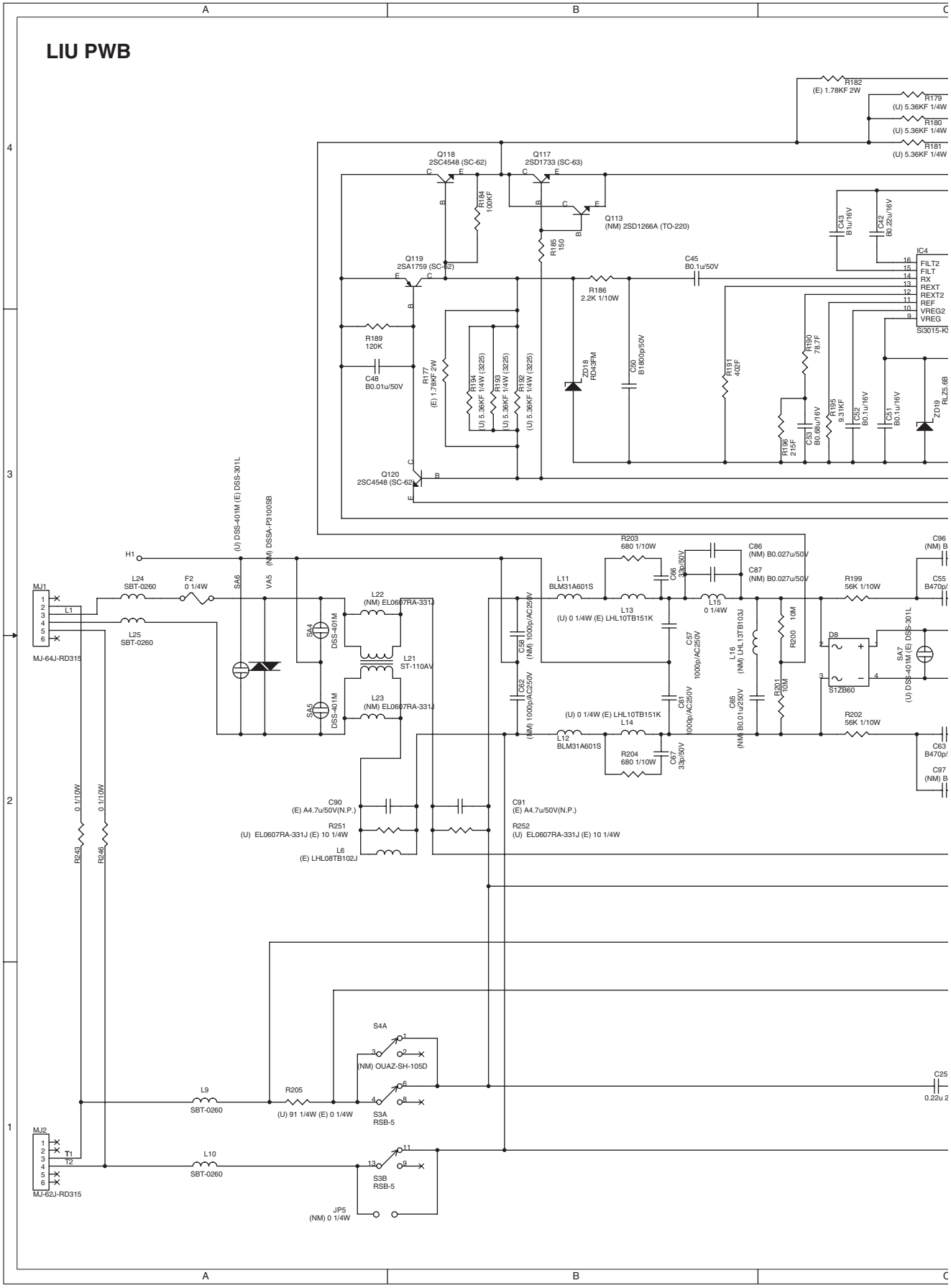


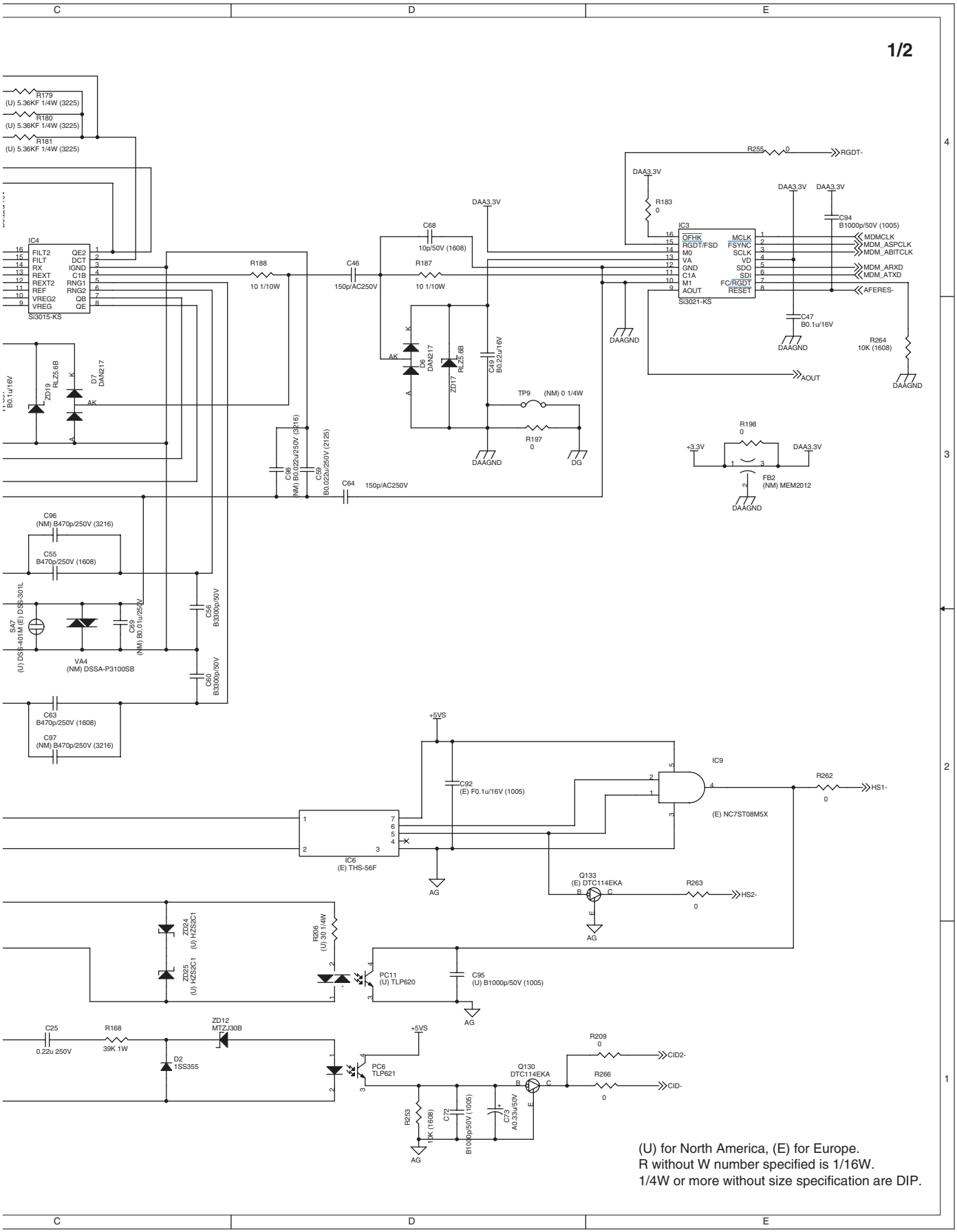


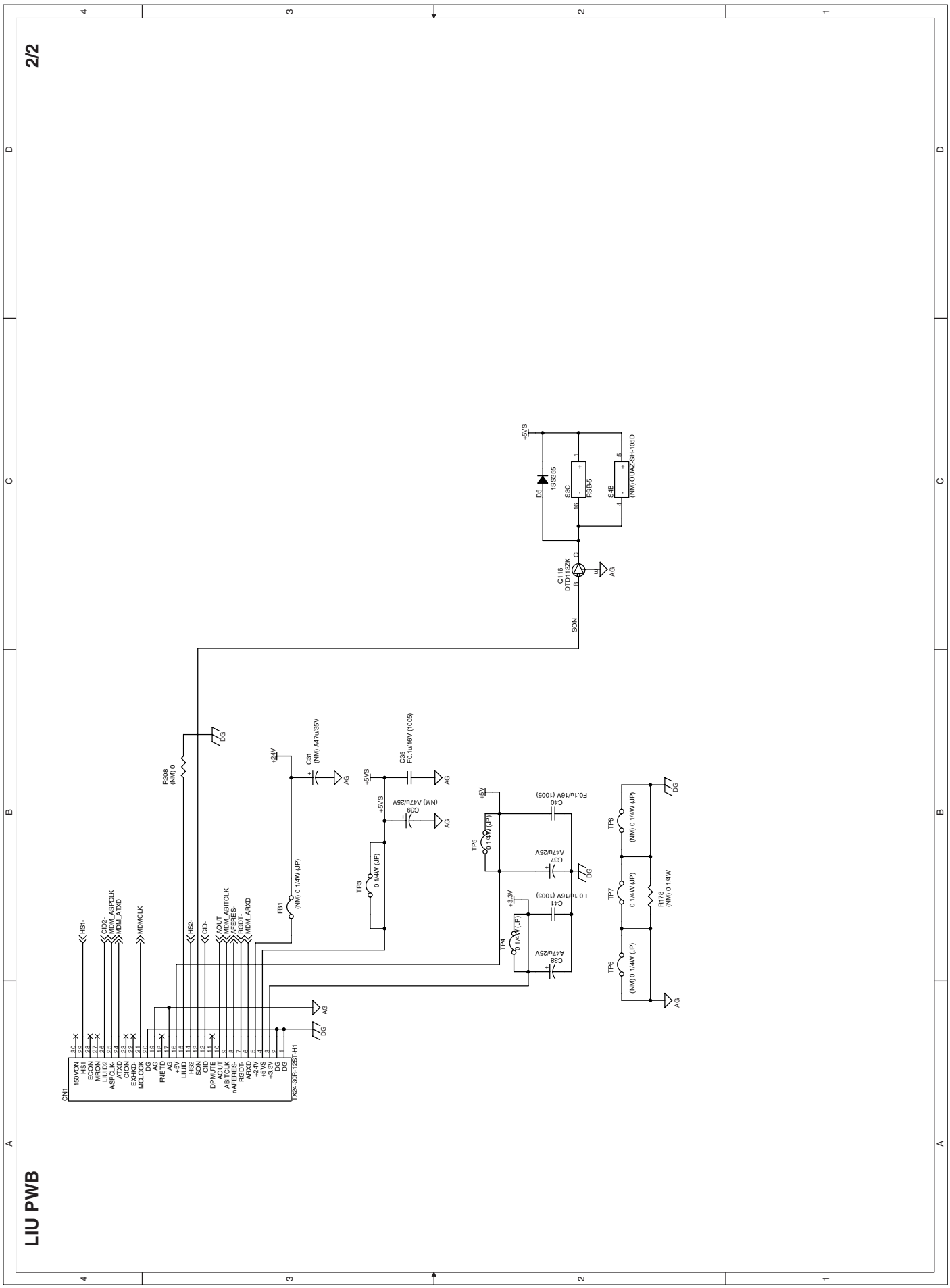
	DAA (JAPAN)	DAA (EXCEPT JAPAN)	AFE (JAPAN)	AFE (EXCEPT JAPAN)	Difference
1	DG	DG	DG	DG	
2	DG	DG	DG	DG	
3	+3.3V	+3.3V	+3.3V	+3.3V	
4	+5VS	+5VS	+5VS	+5VS	
5	+24V	+24V	+24V	+24V	
6	ARXD	ARXD	ARXD	ARXD	
7	RGDT-	RGDT -	MPXA	MPXA	RGDT- MPXA
8	nAFERES-	nAFERES-	nAFERES-	nAFERES-	It changes by CPU setup.
9	ABITCLK	ABITCLK	ABITCLK	ABITCLK	
10	AOUT	AOUT	AOUT	AOUT	
11	SI3OUT	Not use	EXTMSG_DPMUTE	EXTMSG_DPMUTE	
12	CID-	CID-	CID-	CID-	DAA: Not use, AFE (JAPAN): EXTMSG
13	SON	SON	SON	SON	AFE (EXCEPT JAPAN): DPMUTE
14	HS2-	HS2-	HS2-	HS2-	
15	LIUID	LIUID	LIUID	LIUID	
16	+5V	+5V	+5V	+5V	
17	AG	AG	AG	AG	
18	HNDMUTE	Not use	DPON	DPON	
19	AG	AG	AG	AG	
20	DG	DG	DG	DG	DAA: Not use, AFE : DPON
21	MCLOCK	MCLOCK	MCLOCK	MCLOCK	
22	EXHS-	EXHS-	EXHS-	EXHS-	
23	CIO N	CIO N	CION	Not use	
24	ATXD	ATXD	ATXD	ATXD	
25	ASPCLK-	ASPCLK-	ASPCLK-	ASPCLK-	AFE (EXCEPT JAPAN): Not use
26	CID2 -	LIUID2	LIUID2	LIUID2	
27	MRON	MRON	MRON	MRON	
28	ECON	Not use	ECON	Not use	
29	HS1 -	Not use	HS1-	HS1-	
30	150VON-	Not use	150VON-	Not use	JAPAN: CION, EXCEPT JAPAN: Not use DAA(EXCEPT JAPAN): Not use JAPAN: 150VON- EXCEPT JAPAN: Not use



B. TEL LIU PWB


LIU PWB
R182
(E) 1.78KF 2W
R179
(U) 5.36KF 1/4W
R180
(U) 5.36KF 1/4W
R181
(U) 5.36KF 1/4W
Q118
2SC4548 (SC-62)
Q117
2SD1733 (SC-63)
R184
100KF
Q113
(NM) 2SD1266A (TO-220)
R185
150
C43
B1u/16V
C42
B0.22u/16V
IC4
FILT2
FILT
RX
REXT
REXT2
REF
VREG2
VREG
SI3015-KS
Q119
2SA1759 (SC-62)
C45
B0.1u/50V
R186
2.2K 1/10W
R189
120K
C48
B0.01u/50V
R177
(E) 1.78KF 2W
R194
(U) 5.36KF 1/4W (3225)
R193
(U) 5.36KF 1/4W (3225)
R192
(U) 5.36KF 1/4W (3225)
ZD18
RD43FM
C50
B1800p/50V
R191
402F
R190
78.7F
R196
215F
C53
B0.68u/16V
R195
9.31KF
C52
B0.1u/16V
C51
B0.1u/16V
ZD19
RLZ5.6B
Q120
2SC4548 (SC-62)
(U) DSS-401M (E) DSS-301L
(NM) DSSA-P3100SB
H1
MJ1
MJ-64J-RD315
L1
L24
SBT-0260
F2
0 1/4W
SA6
VA5
L25
SBT-0260
L22
(NM) EL0607RA-331J
SA4
DSS-401M
L21
ST-110AV
SA5
DSS-401M
L23
(NM) EL0607RA-331J
R203
680 1/10W
C86
(NM) B0.027u/50V
C87
(NM) B0.027u/50V
L11
BLM31A601S
L13
(U) 0 1/4W (E) LHL10TB151K
L15
0 1/4W
C57
1000p/AC250V
L16
(NM) LHL13TB103J
R200
10M
R199
56K 1/10W
D8
S1ZB60
SA7
(U) DSS-401M (E) DSS-301L
C58
(NM) 1000p/AC250V
C62
(NM) 1000p/AC250V
C61
1000p/AC250V
C65
(NM) B0.01u/250V
R201
10M
(U) 0 1/4W (E) LHL10TB151K
L14
L12
BLM31A601S
R204
680 1/10W
C67
33p/50V
R202
56K 1/10W
C90
(E) A4.7u/50V(N.P.)
R251
(U) EL0607RA-331J (E) 10 1/4W
L6
(E) LHL08TB102J
C91
(E) A4.7u/50V(N.P.)
R252
(U) EL0607RA-331J (E) 10 1/4W
R243
0 1/10W
R246
0 1/10W
S4A
(NM) OUAZ-SH-105D
L9
SBT-0260
R205
(U) 91 1/4W (E) 0 1/4W
S3A
RSB-5
MJ2
MJ-62J-RD315
T1
T2
L10
SBT-0260
S3B
RSB-5
JP5
(NM) 0 1/4W


1/2
R179
(U) 5.36KF 1/4W (3225)
R180
(U) 5.36KF 1/4W (3225)
R181
(U) 5.36KF 1/4W (3225)
IC4
SI3015-KS
R188
10 1/10W
C46
150p/AC250V
R187
10 1/10W
C68
10p/50V (1608)
DAA3.3V
R255
0
RGDT-
R183
0
IC3
SI3021-KS
C94
B1000p/50V (1005)
MDMCLK
MDM_ASPCLK
MDM_ABITCLK
MDM_ARXD
MDM_ATXD
AFERES-
C47
B0.1u/16V
R264
10K (1608)
AOUT
DAAGND
D6
DAN217
ZD17
RLZ5.6B
C49
B0.22u/16V
TP9
(NM) 0 1/4W
R197
0
DG
C98
(NM) B0.022u/250V (3216)
C59
B0.022u/250V (2125)
C64
150p/AC250V
ZD19
RLZ5.6B
D7
DAN217
B0.1u/16V
R198
0
+3.3V
FB2
(NM) MEM2012
C96
(NM) B470p/250V (3216)
C55
B470p/250V (1608)
S47
(U) DSS-401M (E) DSS-301L
VA4
(NM) DSSA-P3100SB
C69
(NM) B0.01u/250V
C56
B3300p/50V
C60
B3300p/50V
C63
B470p/250V (1608)
C97
(NM) B470p/250V (3216)
+5VS
C92
(E) F0.1u/16V (1005)
IC9
(E) NC7ST08M5X
R262
0
HS1-
IC6
(E) THS-56F
AG
Q133
(E) DTC114EKA
R263
0
HS2-
ZD04
(U) HZS2C1
ZD05
(U) HZS2C1
R206
(U) 30 1/4W
PC11
(U) TLP620
C95
(U) B1000p/50V (1005)
C25
0.22u 250V
R168
39K 1W
ZD12
MTZJ30B
D2
1SS355
PC6
TLP621
Q130
DTC114EKA
R209
0
CID2-
R266
0
CID-
R253
1K (1608)
C72
B1000p/50V (1005)
C73
A0.33u/50V
(U) for North America, (E) for Europe.
R without W number specified is 1/16W.
1/4W or more without size specification are DIP.


LIU PWB
2/2
CN1
YX24-30R-12ST-H1
150VON
+5VS
ECON
MRON
LIUID2
ASPCLK
ATXD
CION
EXHKO
MCLOCK
+3VS
DG
AG
RNETD
+24V
LIUID
HS2
SDN
CID
DPMUTE
AOUT
ARBTCLK
nARFRSET
RGDT
ARXD
HS1-
CID2-
MDM_ASPCLK
MDM_ATXD
MDMCLK
HS2-
CID-
MDM_ABITCLK
MDM_ARXD
R208
(NM) 0
FB1
(NM) 0 1/4W (JP)
TP3
0 1/4W (JP)
TP4
0 1/4W (JP)
TP5
0 1/4W (JP)
TP6
(NM) 0 1/4W (JP)
TP7
0 1/4W (JP)
TP8
(NM) 0 1/4W (JP)
RY78
(NM) 0 1/4W
C31
(NM) A47u/35V
C35
F0.1u/16V (1005)
C39
(NM) A47u/25V
C40
F0.1u/16V (1005)
C37
A47u/25V
C41
F0.1u/16V (1005)
C38
A47u/25V
Q116
DTD113ZK
D5
1SS355
S3C
RSB-5
S4B
(NM) OUAZ-SH-105D

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)

"BATTERY DISPOSAL"
THIS PRODUCT CONTAINS A LITHIUM PRIMARY
(MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY
THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE
BATTERY FROM THE PRODUCT AND CONTACT YOUR
LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION
ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES"
CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE
MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE)
QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA
PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE
AGENCE ENVIRONNEMENTALE LOCALE POUR DES
INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET
DE TRAITEMENT.

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